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Project 4786513875

December 22, 2014

REPORT

on

COMPONENT - Nonoptical Isolating Devices - Component

Maxim Integrated Products
San Jose, CA

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DESCRIPTION

PRODUCT COVERED:

*USR, CNR - Single Protection Non-Optical Isolator, Models MAX12930, MAX12931, MAX12934, MAX12935, MAX14430, MAX14431, MAX14432, MAX14434, MAX14435, MAX14436, MAX14483, MAX14930, MAX14931, MAX14932, MAX14933, MAX14934, MAX14935, MAX14936, MAX14937, **MAX22163, MAX22164, MAX22165, MAX22166**, MAX22245, MAX22246, MAX22290, MAX22291, MAX22344, MAX22345, MAX22346, **MAX22420, MAX22421**, MAX22444, MAX22445, MAX22446, MAX22563, MAX22564, MAX22565, MAX22566, MAX22663, MAX22664, MAX22665, **MAX22666**, **MAX22700, MAX22701, MAX22702, MAX22820, MAX22821** Series. May be followed by additional alphanumeric characters.

"+" denotes a lead (Pb)-free/ROHS-compliant package.

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Side A	Side B	Side A	Side B					
MAX12930BASA	0.51	1.52	2.81	8.36	3000	125	150	150	25
MAX12930CASA	1.98	9.55	10.89	52.53	3000	125	150	150	200
MAX12930EASA	0.51	1.52	2.81	8.3	3000	125	150	150	25
MAX12930FASA	1.98	9.5	10.89	52.53	3000	125	150	150	200
MAX12931BASA	0.55	1.43	3.03	7.87	3000	125	150	150	25
MAX12931CASA	2.03	8.84	11.17	48.62	3000	125	150	150	200
MAX12931EASA	0.55	1.43	3.03	7.87	3000	125	150	150	25
MAX12931FASA	2.03	8.84	11.17	48.62	3000	125	150	150	200
MAX12931BAWE	0.5	1.4	2.75	7.7	5000	125	150	150	25
MAX12934BAWE	0.51	1.52	2.81	8.36	5000	125	150	150	25
MAX12934CAWE	1.98	9.55	10.89	52.53	5000	125	150	150	200
MAX12934EAW	0.51	1.52	2.81	8.36	5000	125	150	150	25
MAX12934FAWE	1.98	9.55	10.89	52.53	5000	125	150	150	200
MAX12935BAWE	0.55	1.43	3.03	7.87	5000	125	150	150	25
MAX12935CAWE	2.03	8.84	11.17	48.62	5000	125	150	150	200
MAX12935EAW	0.55	1.43	3.03	7.87	5000	125	150	150	25
MAX12935FAWE	2.03	8.84	11.17	48.62	5000	125	150	150	200
MAX14430BASE+	0.8	2.1	4.4	11.55	3750	125	150	150	25
MAX14430CASE+	2.3	10.5	12.65	57.75	3750	125	150	150	200
MAX14430EAE+	0.8	2.1	4.4	11.55	3000	125	150	150	25
MAX14430EASE+	0.8	2.1	4.4	11.55	3750	125	150	150	25
MAX14430FASE+	2.3	10.5	12.65	57.75	3750	125	150	150	200
MAX14430FASE+ PD	2.1	9.2	11.55	50.6	3750	125	150	150	150
MAX14431BASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431CAEE+	2.1	9.7	11.55	53.35	3000	125	150	150	200
MAX14431CASE+	2.1	9.7	11.55	53.35	3750	125	150	150	200
MAX14431EASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431FASE+	2.3	11.5	12.65	63.25	3750	125	150	150	200
MAX14431SASE+	2.3	11.5	12.65	63.25	3750	125	150	150	200
MAX14431RASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431UASE+	0.85	2.2	4.7	12.1	3750	125	150	150	25
MAX14431VASE+	2.3	11.5	12.65	63.25	3750	125	150	150	200
MAX14431FASE+ PD	2.1	9.7	11.55	53.35	3750	125	150	150	150
MAX14432BASE+	0.9	2.0	4.95	11	3750	125	150	150	25
MAX14432CASE+	2.4	11.5	13.2	63.25	3750	125	150	150	200
MAX14432EASE+	0.9	2.0	4.95	11	3750	125	150	150	25
MAX14432FASE+	2.4	11.5	13.2	63.25	3750	125	150	150	200
MAX14434BAWE+	0.8	2.1	4.4	11.55	5000	125	150	150	25
MAX14434CAWE+	2.3	10.5	12.65	57.75	5000	125	150	150	200
MAX14434EAW	0.8	2.1	4.4	11.55	5000	125	150	150	25
MAX14434FAWE+	2.3	10.5	12.65	57.75	5000	125	150	150	200
MAX14435BAWE+	0.85	2.2	4.7	12.1	5000	125	150	150	25
MAX14435CAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14435EAW	0.85	2.2	4.7	12.1	5000	125	150	150	25
MAX14435FAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14435SAWE+	2.1	9.7	11.55	53.35	5000	125	150	150	200
MAX14435RAWE+	0.85	2.	4.7	12.1	5000	125	150	150	25

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Side A	Side B	Side A	Side B					
MAX14435UAW+E	0.85	2.2	4.7	12.1	5000	125	150	150	25
MAX14435VAWE+	2.1	9.7	11.5	53.35	5000	125	150	150	200
MAX14436BAWE+	0.9	2.0	4.95	11	5000	125	150	150	25
MAX14436CAWE+	2.4	11.5	13.2	63.25	5000	125	150	150	200
MAX14436EAW+E	0.9	2.0	4.95	11	5000	125	150	150	25
MAX14436FAWE+	2.4	11.5	13.2	63.25	5000	125	150	150	200
MAX14483	3.1	12.5	17.0	69.0	3750	125	150	150	200
MAX14930A	0.8	2.5	4.4	13.7	3750*	125	150	150	150
MAX14930B	1.1	3.6	6.0	19.8	3750*	125	150	150	150
MAX14930C	2.7	7.9	14.8	43.5	3750*	125	150	150	150
MAX14930D	0.8	2.5	4.4	13.7	3750*	125	150	150	150
MAX14930E	1.1	3.6	6.0	19.8	3750*	125	150	150	150
MAX14930F	2.7	7.9	14.8	43.5	3750*	125	150	150	150
MAX14931A	2.2	2.1	12.1	11.5	3750*	125	150	150	150
MAX14931B	2.7	2.9	14.8	15.9	3750*	125	150	150	150
MAX14931C	6.5	6.5	35.7	35.7	3750*	125	150	150	150
MAX14931D	2.2	2.1	12.1	11.5	3750*	125	150	150	150
MAX14931E	2.7	2.9	14.8	15.9	3750*	125	150	150	150
MAX14931F	6.5	6.5	35.7	35.7	3750*	125	150	150	150
MAX14932A	2.9	1.6	15.9	8.8	3750*	125	150	150	150
MAX14932B	4.0	2.2	22.0	12.1	3750*	125	150	150	150
MAX14932C	9.4	5.2	51.7	28.6	3750*	125	150	150	150
MAX14932D	2.9	1.6	15.9	8.8	3750*	125	150	150	150
MAX14932E	4.0	2.2	22.0	12.1	3750*	125	150	150	150
MAX14932F	9.4	5.2	51.7	28.6	3750*	125	150	150	150
MAX14933	3.2	1.5	17.6	8.2	3750*	125	150	150	150
MAX14934A	0.8	2.5	4.4	13.7	5000	125	150	150	150
MAX14934B	1.1	3.6	6.0	19.8	5000	125	150	150	150
MAX14934C	2.7	7.9	14.8	43.5	5000	125	150	150	150
MAX14934D	0.8	2.5	4.4	13.7	5000	125	150	150	150
MAX14934E	1.1	3.6	6.0	19.8	5000	125	150	150	150
MAX14934F	2.7	7.9	14.8	43.5	5000	125	150	150	150
MAX14935A	2.2	2.1	12.1	11.5	5000	125	150	150	150
MAX14935B	2.7	2.9	14.8	15.9	5000	125	150	150	150
MAX14935C	6.5	6.5	35.7	35.7	5000	125	150	150	150
MAX14935D	2.2	2.1	12.1	11.5	5000	125	150	150	150
MAX14935E	2.7	2.9	14.8	15.9	5000	125	150	150	150
MAX14935F	6.5	6.5	35.7	35.7	5000	125	150	150	150
MAX14936A	2.9	1.6	15.9	8.8	5000	125	150	150	150
MAX14936B	4.0	2.2	22.0	12.1	5000	125	150	150	150
MAX14936C	9.4	5.2	51.7	28.6	5000	125	150	150	150
MAX14936D	2.9	1.6	15.9	8.8	5000	125	150	150	150
MAX14936E	4.0	2.2	22.0	12.1	5000	125	150	150	150
MAX14936F	9.4	5.2	51.7	28.6	5000	125	150	150	150
MAX14937	3.2	1.5	17.6	8.2	5000	125	150	150	150
MAX22163BAEE+, MAX22163BAEE/V+	1.00	1.00	5.49	5.49	3000	125	150	150	25
MAX22163CAEE+, MAX22163CAEE/V+	6.58	6.58	36.18	36.18	3000	125	150	150	200
MAX22163EAEE+, MAX22163EAEE/V+	1.00	1.00	5.49	5.49	3000	125	150	150	25
MAX22163FAEE+, MAX22163FAEE/V+	6.58	6.58	36.18	36.18	3000	125	150	150	200
MAX22164BAEE+, MAX22164BAEE/V+	0.81	1.19	4.45	6.53	3000	125	150	150	25
MAX22164CAEE+, MAX22164CAEE/V+	5.20	7.96	28.60	43.77	3000	125	150	150	200
MAX22164EAEE+, MAX22164EAEE/V+	0.81	1.19	4.45	6.53	3000	125	150	150	25
MAX22164FAEE+, MAX22164FAEE/V+	5.20	7.96	28.60	43.77	3000	125	150	150	200
MAX22165BAEE+, MAX22165BAEE/V+	0.62	1.38	3.40	7.57	3000	125	150	150	25
MAX22165CAEE+, MAX22165CAEE/V+	3.82	9.34	21.01	51.36	3000	125	150	150	200
MAX22165EAEE+, MAX22165EAEE/V+	0.62	1.38	3.40	7.57	3000	125	150	150	25
MAX22165FAEE+, MAX22165FAEE/V+	3.82	9.34	21.01	51.36	3000	125	150	150	200
MAX22166BAEE+, MAX22166BAEE/V+	0.43	1.57	2.36	8.62	3000	125	150	150	25
MAX22166CAEE+, MAX22166CAEE/V+	2.44	10.72	13.42	58.95	3000	125	150	150	200

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MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Side A	Side B	Side A	Side B					
MAX22166EAEE+, MAX22166EAEE/V+	0.43	1.57	2.36	8.62	3000	125	150	150	25
MAX22166FAEE+, MAX22166FAEE/V+	2.44	10.72	13.42	58.95	3000	125	150	150	200
MAX22245BAWA+, MAX22245BAWA/V+	0.42	1.59	2.33	8.74	5000	125	150	150	25
MAX22245CAWA+, MAX22245CAWA/V+	2.31	10.89	12.69	59.87	5000	125	150	150	200
MAX22245EAWA+, MAX22245EAWA/V+	0.42	1.59	2.33	8.74	5000	125	150	150	25
MAX22245FAWA+, MAX22245FAWA/V+	2.31	10.89	12.69	59.87	5000	125	150	150	200
MAX22246BAWA+, MAX22246BAWA/V+	2.01	2.01	11.07	11.07	5000	125	150	150	25
MAX22246CAWA+, MAX22246CAWA/V+	13.19	13.19	72.57	72.57	5000	125	150	150	200
MAX22246EAWA+, MAX22246EAWA/V+	2.01	2.01	11.07	11.07	5000	125	150	150	25
MAX22246FAWA+, MAX22246FAWA/V+	13.19	13.19	72.57	72.57	5000	125	150	150	200
MAX22290BASA+, MAX22290BASA/V+	0.42	1.59	2.33	8.74	3000	125	150	150	25
MAX22290CASA+, MAX22290CASA/V+	2.31	10.89	12.69	59.87	3000	125	150	150	200
MAX22290EASA+, MAX22290EASA/V+	0.42	1.59	2.33	8.74	3000	125	150	150	25
MAX22290FASA+, MAX22290FASA/V+	2.31	10.89	12.69	59.87	3000	125	150	150	200
MAX22291BASA+, MAX22291BASA/V+	2.01	2.01	11.07	11.07	3000	125	150	150	25
MAX22291CASA+, MAX22291CASA/V+	13.19	13.19	72.57	72.57	3000	125	150	150	200
MAX22291EASA+, MAX22291EASA/V+	2.01	2.01	11.07	11.07	3000	125	150	150	25
MAX22291FASA+, MAX22291FASA/V+	13.19	13.19	72.57	72.57	3000	125	150	150	200
MAX22344BAAP+	0.9	2.2	4.95	12.1	3750	125	+150	150	25
MAX22344CAAP+	2.4	9.6	13.2	52.8	3750	125	+150	150	200
MAX22345BAAP+	0.95	2.0	5.22	11	3750	125	+150	150	25
MAX22345CAAP+	2.7	9.5	14.85	52.25	3750	125	+150	150	200

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
MAX22345RAAP+	0.95	2.0	5.22	11	3750	125	+150	150	25
MAX22345SAAP+	2.7	9.5	14.85	52.25	3750	125	+150	150	200
MAX22346BAAP+	1.1	1.9	6.05	10.45	3750	125	+150	150	25
MAX22346CAAP+	2.8	9.0	15.4	49.5	3750	125	+150	150	200
MAX22420BASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22420CASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22420EASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22420FASA	0.32	0.57	1.76	3.135	3000	125	150	150	10
MAX22421BASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22421CASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22421EASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22421FASA	0.45	0.45	2.475	2.475	3000	125	150	150	10
MAX22444BAWE+	0.9	2.2	4.95	12.1	5000	125	150	150	25
MAX22444CAWE+	2.4	9.6	13.2	52.8	5000	125	150	150	200
MAX22444EAW+	0.9	2.2	4.95	12.1	5000	125	150	150	25
MAX22444FAWE+	2.4	9.6	13.2	52.8	5000	125	150	150	200
MAX22444MAWE+	0.9	2.2	4.95	12.1	5000	125	150	150	25
MAX22444NAWE+	2.4	9.6	13.2	52.8	5000	125	150	150	200
MAX22445BAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445CAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445EAW+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445FAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445MAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445NAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445RAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445SAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22445UAWE+	0.95	2.0	5.22	11	5000	125	150	150	25
MAX22445VAWE+	2.7	9.5	14.85	52.25	5000	125	150	150	200
MAX22446BAWE+	1.1	1.9	6.05	10.45	5000	125	150	150	25
MAX22446CAWE+	2.8	9.0	15.4	49.5	5000	125	150	150	200
MAX22446EAW+	1.1	1.9	6.05	10.45	5000	125	150	150	25
MAX22446FAWE+	2.8	9.0	15.4	49.5	5000	125	150	150	200
MAX22446MAWE+	1.1	1.9	6.05	10.45	5000	125	150	150	25
MAX22446NAWE+	2.8	9.0	15.4	49.5	5000	125	150	150	200
MAX22700DASA+	6.5	10	36	360	3000	125	150	150	2
MAX22700DAWA+	6.5	10	36	360	5000	125	150	150	2
MAX22700EASA+	6.5	10	36	360	3000	125	150	150	2
MAX22700EAW+	6.5	10	36	360	5000	125	150	150	2
MAX22701DASA+	6.5	10	36	360	3000	125	150	150	2
MAX22701DAWA+	6.5	10	36	360	5000	125	150	150	2
MAX22701EASA+	6.5	10	36	360	3000	125	150	150	2
MAX22701EAW+	6.5	10	36	360	5000	125	150	150	2
MAX22702DASA+	6.5	10	36	360	3000	125	150	150	2
MAX22702DAWA+	6.5	10	36	360	5000	125	150	150	2
MAX22702EASA+	6.5	10	36	360	3000	125	150	150	2
MAX22702EAW+	6.5	10	36	360	5000	125	150	150	2
MAX22563BAAP+, MAX22563BAAP/V+	1.00	1.00	5.49	5.49	3750	125	150	150	25
MAX22563CAAP+, MAX22563CAAP/V+	6.58	6.58	36.18	36.18	3750	125	150	150	200
MAX22564BAAP+, MAX22564BAAP/V+	0.81	1.19	4.45	6.53	3750	125	150	150	25
MAX22564CAAP+, MAX22564CAAP/V+	5.20	7.96	28.60	43.77	3750	125	150	150	200
MAX22565BAAP+, MAX22565BAAP/V+	0.62	1.38	3.40	7.57	3750	125	150	150	25
MAX22565CAAP+, MAX22565CAAP/V+	3.82	9.34	21.01	51.36	3750	125	150	150	200
MAX22566BAAP+, MAX22566BAAP/V+	0.43	1.57	2.36	8.62	3750	125	150	150	25
MAX22566CAAP+, MAX22566CAAP/V+	2.44	10.72	13.42	58.95	3750	125	150	150	200

MAXIMUM RATINGS PER CHANNEL (at 25°C ambient) (\$) (CONT.):

Model	Current (mA)		Power (mW)		Isolation Voltage at 60 sec (Vrms)	Max Operating Ambient Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)	Max Data Rate, Mbps
	Encoder (Side 1)	Decoder (Side 2)	Encoder (Side 1)	Decoder (Side 2)					
*MAX22663BAWE+, MAX22663BAWE/V+	1.00	1.00	5.49	5.49	5000	125	150	150	25
MAX22663CAWE+, MAX22663CAWE/V+	6.58	6.58	36.18	36.18	5000	125	150	150	200
MAX22663EAW+, MAX22663EAW/V+	1.00	1.00	5.49	5.49	5000	125	150	150	25
MAX22663FAWE+, MAX22663FAWE/V+	6.58	6.58	36.18	36.18	5000	125	150	150	200
MAX22664BAWE+, MAX22664BAWE/V+	0.81	1.19	4.45	6.53	5000	125	150	150	25
MAX22664CAWE+, MAX22664CAWE/V+	5.20	7.96	28.60	43.77	5000	125	150	150	200
MAX22664EAW+, MAX22664EAW/V+	0.81	1.19	4.45	6.53	5000	125	150	150	25
MAX22664FAWE+, MAX22664FAWE/V+	5.20	7.96	28.60	43.77	5000	125	150	150	200
MAX22665BAWE+, MAX22665BAWE/V+	0.62	1.38	3.40	7.57	5000	125	150	150	25
MAX22665CAWE+, MAX22665CAWE/V+	3.82	9.34	21.01	51.36	5000	125	150	150	200
MAX22665EAW+, MAX22665EAW/V+	0.62	1.38	3.40	7.57	5000	125	150	150	25
MAX22665FAWE+, MAX22665FAWE/V+	3.82	9.34	21.01	51.36	5000	125	150	150	200
MAX22666BAWE+, MAX22666BAWE/V+	0.43	1.57	2.36	8.62	5000	125	150	150	25
MAX22666CAWE+, MAX22666CAWE/V+	2.44	10.72	13.42	58.95	5000	125	150	150	200
MAX22666EAW+, MAX22666EAW/V+	0.43	1.57	2.36	8.62	5000	125	150	150	25
MAX22666FAWE+, MAX22666FAWE/V+	2.44	10.72	13.42	58.95	5000	125	150	150	200
MAX22820BASA	0.32	0.57	1.76	3.135	5000	125	150	150	10
MAX22820CASA	0.32	0.57	1.76	3.135	5000	125	150	150	10
MAX22820EASA	0.32	0.57	1.76	3.135	5000	125	150	150	10
MAX22820FASA	0.32	0.57	1.76	3.135	5000	125	150	150	10
MAX22821BASA	0.45	0.45	2.475	2.475	5000	125	150	150	10
MAX22821CASA	0.45	0.45	2.475	2.475	5000	125	150	150	10
MAX22821EASA	0.45	0.45	2.475	2.475	5000	125	150	150	10
MAX22821FASA	0.45	0.45	2.475	2.475	5000	125	150	150	10

(\$) - For ambient temperatures higher than 25°C and up to Tmoa, refer to manufacturer's specifications and/or thermal derating curve data for complete electrical ratings.

*- The manufacturer's datasheet may specify the isolation voltage for these models as 3750 Vac or 2750 Vac, for marketing purposes only.

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RESERVED FOR FUTURE USE

GENERAL:

These non-optical isolator devices consist of a transmitter coupled to a receiver. The transmitter and receiver are separated by an insulating barrier. Internal chips are connected to lead frames that are molded into the enclosure.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in products where the acceptability of the combination is determined by UL LLC.

USR indicates this product was investigated under the UL Standard for Safety for Optical Isolators, UL 1577, Fifth Edition, **revised June 11, 2019**.

CNR indicates this product was investigated under the Canadian Certification Notice, CSA Component Acceptance Service No. 5A, **dated January 23, 1998**.

Conditions of Acceptability - Each device shall be reviewed with respect to the following conditions of acceptability:

1. The capability of the device to control a load has not been investigated.
2. These devices should be installed in a suitable end product enclosure.
3. The maximum junction temperature shall not be exceeded.
4. For single protection devices, the insulation to the case has not been evaluated. For double protection devices, the insulation to the case has been evaluated to the isolation voltage specified in the ratings table.
5. In addition to meeting single protection requirements, double protection optical isolators have also been investigated for use in up to 250 V, 50/60 Hz circuits in audio, video, and similar equipment in applications in which breakdown of the optical isolator may result in a risk of fire, electrical shock, or injury to persons.

CONSTRUCTION DETAILS:

General - The product shall be constructed in accordance with the following description. All dimensions are approximate, unless specified as "max" or "min".

Markings - As specified in the Section General.

*Model Differences - All models have identical insulation systems. The only differences between models are the input and output configurations.

MODEL MAX14936 Series

General - Model MAX14936 Series represents models MAX14930, MAX14931, MAX14932, MAX14933, MAX14934, MAX14935, and MAX14937 except as noted below.

1. Transmitter - FET output.
2. Receiver - FET output.
3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX14930A, MAX14934A	61A-2C	63A-2C
MAX14930B, MAX14934B	61A-1C	63A-1C
MAX14930C, MAX14934C	61A-0C	63A-0C
MAX14930D, MAX14934D	61A-10C	63A-10C
MAX14930E, MAX14934E	61A-11C	63A-11C
MAX14930F, MAX14934F	61A-12C	63A-12C
MAX14931A, MAX14935A	61A-5C	63A-5C
MAX14931B, MAX14935B	61A-4C	63A-4C
MAX14931C, MAX14935C	61A-3C	63A-3C
MAX14931D, MAX14935D	61A-15C	63A-15C
MAX14931E, MAX14935E	61A-14C	63A-14C
MAX14931F, MAX14935F	61A-13C	63A-13C
MAX14932A, MAX14936A	61A-8C	63A-8C
MAX14932B, MAX14936B	61A-7C	63A-7C
MAX14932C, MAX14936C	61A-6C	63A-6C
MAX14932D, MAX14936D	61A-18C	63A-18C
MAX14932E, MAX14936E	61A-17C	63A-17C
MAX14932F, MAX14936F	61A-16C	63A-16C
MAX14933, MAX14937	61A-9C	63A-9C

4. Lead Frame and Bond Wire - Metal employed for current carrying parts shall be of stainless steel, plated steel, silver, gold, copper, nickel, aluminum, an alloy of the same, or an equivalent material.
5. Casing (Outer Mold) - Type G700LA manufactured by Sumitomo Bakelite Co. Ltd.

Alternate - Type CEL8240GK, manufactured by Hitachi Chemical.

6. Isolation Barrier - Silicon Dioxide, manufactured by Maxim Integrated, minimum 15µm through insulation thickness between the input and output circuits.

MODEL MAX12930 Series

General - Same as model MAX14936 Series, except as noted below. Model MAX12930 Series represents models MAX12931 Series (except for model MAX12931BAWE), **MAX14430FASE+CPD**, and **MAX14431FASE+CPD**.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX12930BASA	RV27A-0B	RV28A-0B
MAX12930CASA	RV27A-0B	RV28A-0B
MAX12930EASA	RV27A-0B	RV28A-0B
MAX12930FASA	RV27A-0B	RV28A-0B
MAX12931BASA	RV26A-0C	RV26A-0C
MAX12931CASA	RV26A-0C	RV26A-0C
MAX12931EASA	RV26A-0C	RV26A-0C
MAX12931FASA	RV26A-0C	RV26A-0C
MAX14430FASE+CPD	RV51A-0B	RV53A-0B
MAX14431FASE+CPD	RV51A-1B	RV53A-1B

5. Casing (Outer Mold) - Type G700LA manufactured by Sumitomo Bakelite Co. Ltd.

MODEL MAX14434 Series

General - Same as model MAX14936 Series, except as noted below. Model MAX14434 Series represents models MAX12931BAWE, MAX12934, MAX12935, MAX14430 (except MAX14430FASE+CPD), MAX14431 (except MAX14431FASE+CPD), MAX14432, MAX14435 and MAX14436 Series.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX12931BAWE	RV26A-0C	RV26A-0C
MAX12934BAWE	RV27A-0B	RV28A-0B
MAX12934CAWE	RV27A-0B	RV28A-0B
MAX12934EAWA	RV27A-0B	RV28A-0B
MAX12934FAWE	RV27A-0B	RV28A-0B
MAX12935BAWE	RV26A-0C	RV26A-0C
MAX12935CAWE	RV26A-0C	RV26A-0C
MAX12935EAWA	RV26A-0C	RV26A-0C
MAX12935FAWE	RV26A-0C	RV26A-0C
MAX14430BASE, MAX14434BAWE	RV51A-0B	RV53A-0B
MAX14430CASE, MAX14434CAWE	RV51A-0B	RV53A-0B
MAX14430EAAE , MAX14430EASE, MAX14434EAWA	RV51A-0B	RV53A-0B
MAX14430FASE, MAX14434FAWE	RV51A-0B	RV53A-0B
MAX14431BASE, MAX14435BAWE	RV51A-1B	RV53A-1B
MAX14431CAEE , MAX14431CASE, MAX14435CAWE	RV51A-1B	RV53A-1B
MAX14431EASE, MAX14435EAWA	RV51A-1B	RV53A-1B
MAX14431FASE, MAX14435FAWE	RV51A-1B	RV53A-1B
MAX14431RASE, MAX14435RAWA	RV51A-1B	RV53A-1B
MAX14431SASE, MAX14435SAWE	RV51A-1B	RV53A-1B
MAX14431UASE, MAX14435UAWA	RV51A-1B	RV53A-1B
MAX14431VASE, MAX14435VAWE	RV51A-1B	RV53A-1B
MAX14432BASE, MAX14436BAWE	RV51A-2B	RV53A-2B
MAX14432CASE, MAX14436CAWE	RV51A-2B	RV53A-2B
MAX14432EASE, MAX14436EAWA	RV51A-2B	RV53A-2B
MAX14432FASE, MAX14436FAWE	RV51A-2B	RV53A-2B

5. Casing (Outer Mold) - MAX1443xxAWA and MAX1293xxAWA (Wide body SOIC-16) Type CEL8240GK, manufactured by Hitachi Chemical.

Alternate - MAX1443xxASE (Narrow body SOIC-16) Type G770HCD, manufactured by Sumitomo.

Alternate MAX1443xxAAE (Narrow body QSOP-16) Type G600, manufactured by Sumitomo Bakelite Co. Ltd.

MODEL MAX22444 Series

General - Same as model MAX14936 Series, except as noted below. Model MAX22444 Series represents models MAX22445 and MAX22446 Series.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22444BAWE+, MAX22444CAWE+, MAX22444EAWWE+, MAX22444FAWE+, MAX22444MAWE+, MAX22444NAWE+	RV61A-0	RV61A-3
MAX22445BAWE+, MAX22445CAWE+, MAX22445EAWWE+, MAX22445FAWE+, MAX22445MAWE+, MAX22445NAWE+, MAX22445RAWWE+, MAX22445SAWE+, MAX22445UAWE+, MAX22445VAWE+	RV61A-1	RV61A-4
MAX22446BAWE+, MAX22446CAWE+, MAX22446EAWWE+, MAX22446FAWE+, MAX22446MAWE+, MAX22446NAWE+	RV61A-2	RV61A-2

5. Casing (Outer Mold) - Type CEL8240GK, manufactured by Hitachi Chemical.
6. Isolation Barrier - Silicon Dioxide, manufactured by Maxim Integrated, minimum 21µm through insulation thickness between the input and output circuits.

MODEL MAX14483 Series

General - Same as model MAX14936 Series, except as noted below.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX14483	RV64A-0A	RV64A-0A

5. Casing (Outer Mold) - Type G605L manufactured by Sumitomo Bakelite Co. Ltd.

*MODEL **MAX22700DASA+**

*General - Same as model MAX14936 Series, except as noted below. Model **MAX22700DASA+** represents models **MAX22700EASA+**, **MAX22701DASA+**, **MAX22701EASA+**, **MAX22702DASA+**, and **MAX22702EASA+**.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22700DASA+, MAX22700EASA+	RV84A	RV85A, RV86
MAX22701DASA+, MAX22701EASA+	RV84A	RV85A, RV86
MAX22702DASA+, MAX22702EASA+	RV84A	RV85A, RV86

5. Casing (Outer Mold) - Type G770HCD, manufactured by Sumitomo.

MODEL MAX22344 Series

*General - Same as model MAX14936 Series, except as noted below. Model MAX22344 Series represents models MAX22345 Series, MAX22346 Series, MAX22563 Series, MAX22564 Series, MAX22565 Series and MAX22566 Series.

3. Isolation Chip - As described below.

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Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22344BAAP+, MAX22344CAAP+	RV61A-0	RV61A-3
MAX22345BAAP+, MAX22345CAAP+, MAX22345RAAP+, MAX22345SAAP+	RV61A-1	RV61A-4
MAX22346BAAP+, MAX22346CAAP+	RV61A-2	RV61A-2
MAX22563BAAP+, MAX22563CAAP+, MAX22563BAAP/V+, MAX22563CAAP/V+	RX30A-3A	RX30A-3A
MAX22564BAAP+, MAX22564CAAP+, MAX22564BAAP/V+, MAX22564CAAP/V+	RX30A-4A	RX30A-2A
MAX22565BAAP+, MAX22565CAAP+, MAX22565BAAP/V+, MAX22565CAAP/V+	RX30A-5A	RX30A-1A
MAX22566BAAP+, MAX22566CAAP+, MAX22566BAAP/V+, MAX22566CAAP/V+	RX30A-6A	RX30A-0A

5. Casing (Outer Mold) - Type G605L manufactured by Sumitomo Bakelite Co. Ltd.
6. Isolation Barrier - Silicon Dioxide, manufactured by Maxim Integrated, minimum 21µm through insulation thickness between the input and output circuits.

MODEL MAX22246 Series

General - Same as model MAX14936 Series, except as noted below. Model MAX22246 Series represents models MAX22245 Series.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22245BAWA+, MAX22245CAWA+, MAX22245EAWA+, MAX22245FAWA+ , MAX22245BAWA/V+ , MAX22245CAWA/V+ , MAX22245EAWA/V+ , MAX22245FAWA/V+	RX23A-2	RX23A-0
MAX22246BAWA+, MAX22246CAWA+, MAX22246EAWA+, MAX22246FAWA+ , MAX22246BAWA/V+ , MAX22246CAWA/V+ , MAX22246EAWA/V+ , MAX22246FAWA/V+	RX23A-1	RX23A-1

5. Casing (Outer Mold) - Type G700LA manufactured by Sumitomo Bakelite Co. Ltd.

Alternate Casing (Outer Mold) - Type G770HCD manufactured by Sumitomo Bakelite Co. Ltd.

6. Isolation Barrier - Silicon Dioxide, manufactured by Maxim Integrated, minimum 21µm through insulation thickness between the input and output circuits.

MODEL MAX22701EAWA+

General - Same as model MAX14936 Series, except as noted below. Model MAX22701EAWA+ represents models MAX22700DAWA+, MAX22700EAWA+, MAX22701DAWA+, MAX22702DAWA+, and MAX22702EAWA+.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22700DAWA+, MAX22700EAWA+	RV84A	RV85A, RV86
MAX22701DAWA+, MAX22701EAWA+	RV84A	RV85A, RV86
MAX22702DAWA+, MAX22702EAWA+	RV84A	RV85A, RV86

5. Casing (Outer Mold) - Type G700LA manufactured by Sumitomo Bakelite Co. Ltd.

MODEL MAX22163 Series

General - Same as model MAX14936 Series, except as noted below. Model MAX22163 Series represents models MAX22164 Series, MAX22165 Series, and MAX22166 Series.

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22163BAEE+, MAX22163CAEE+, MAX22163EAEE+, MAX22163FAEE+, MAX22163BAEE/V+, MAX22163CAEE/V+, MAX22163EAEE/V+, MAX22163FAEE/V+	RX30A-3A	RX30A-3A
MAX22164BAEE+, MAX22164CAEE+, MAX22164EAEE+, MAX22164FAEE+, MAX22164BAEE/V+, MAX22164CAEE/V+, MAX22164EAEE/V+, MAX22164FAEE/V+	RX30A-4A	RX30A-2A
MAX22165BAEE+, MAX22165CAEE+, MAX22165EAEE+, MAX22165FAEE+, MAX22165BAEE/V+, MAX22165CAEE/V+, MAX22165EAEE/V+, MAX22165FAEE/V+	RX30A-5A	RX30A-1A
*MAX22166BAEE+, MAX22166CAEE+, MAX22166EAEE+, MAX22166FAEE+, MAX22166BAEE/V+, MAX22166CAEE/V+, MAX22166EAEE/V+ , MAX22166FAEE/V+	RX30A-6A	RX30A-0A

5. Casing (Outer Mold) - Type G600 manufactured by Sumitomo Bakelite Co. Ltd.
6. Isolation Barrier - Silicon Dioxide, manufactured by Maxim Integrated, minimum 21µm through insulation thickness between the input and output circuits.

MODEL MAX22663 Series

*General - Same as model MAX14936 Series, except as noted below. Model MAX22663 Series represents models MAX22290 Series, MAX22291 Series, **MAX22420 Series, MAX22421 Series**, MAX22663 Series, MAX22664 Series, MAX22665 Series, MAX22666 **Series, MAX22820 Series, and MAX22821 Series.**

3. Isolation Chip - As described below.

Optical Isolator Model	Emitter Chip	Sensor Chip
MAX22290BASA+, MAX22290CASA+, MAX22290EASA+, MAX22290FASA+, MAX22290BASA/V+, MAX22290CASA/V+, MAX22290EASA/V+, MAX22290FASA/V+	RX23A-2B	RX23A-0B
MAX22291BASA+, MAX22291CASA+, MAX22291EASA+, MAX22291FASA+, MAX22291BASA/V+, MAX22291CASA/V+, MAX22291EASA/V+, MAX22291FASA/V+	RX23A-1B	RX23A-1B
MAX22420BASA, MAX22420CASA, MAX22420EASA, MAX22420FASA,	RV93A-2A	RV93A-0A
MAX22421BASA, MAX22421CASA, MAX22421EASA, MAX22421FASA	RV93A-1A	RV93A-1A
MAX22663BAWE+, MAX22663CAWE+, MAX22663EAWV+, MAX22663FAWE+, MAX22663BAWE/V+, MAX22663CAWE/V+, MAX22663EAWV+, MAX22663FAWE/V+	RX30A-3A	RX30A-3A
MAX22664BAWE+, MAX22664CAWE+, MAX22664EAWV+, MAX22664FAWE+, MAX22664BAWE/V+, MAX22664CAWE/V+, MAX22664EAWV+, MAX22664FAWE/V+	RX30A-4A	RX30A-2A
MAX22665BAWE+, MAX22665CAWE+, MAX22665EAWV+, MAX22665FAWE+, MAX22665BAWE/V+, MAX22665CAWE/V+, MAX22665EAWV+, MAX22665FAWE/V+	RX30A-5A	RX30A-1A
MAX22666BAWE+, MAX22666CAWE+, MAX22666EAWV+, MAX22666FAWE+, MAX22666BAWE/V+, MAX22666CAWE/V+, MAX22666EAWV+, MAX22666FAWE/V+	RX30A-6A	RX30A-0A
MAX22820BASA, MAX22820CASA, MAX22820EASA, MAX22820FASA,	RV93A-2A	RV93A-0A
MAX22821BASA, MAX22821CASA, MAX22821EASA, MAX22821FASA	RV93A-1A	RV93A-1A

5. Casing (Outer Mold) - Type G770HCD manufactured by Sumitomo Bakelite Co. Ltd.
6. Isolation Barrier - Silicon Dioxide, manufactured by Maxim Integrated, minimum 21 μm through insulation thickness between the input and output circuits.