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Rectifiers

February 2005

TOSHIBA CORPORATION

Semiconductor Company

Discrete Semiconductor Division

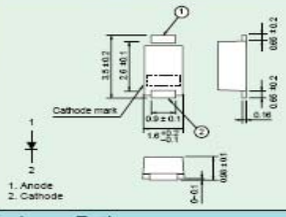
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5. Product Characteristics

5.1 General-Purpose Rectifiers

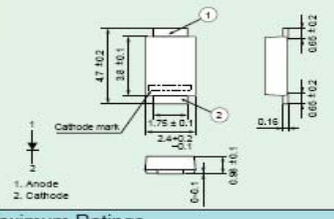
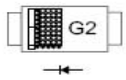
▸▸ Single

S-FLAT™

Package Appearance	Package Dimensions (mm)	Marking
 Package Number ⑭		Example CRG01 

Part Number	Maximum Ratings					Electrical Characteristics (Max)		
	V_{RRM} (V)	$I_{F(AV)}$ (A)	I_{FSM} (A)	T_j (°C)	T_{stg} (°C)	I_{RRM} (μA)	V_{FM} (V)	@I_{FM} (A)
CRG01	100	0.7	15	–40 to 150	–40 to 150	10	1.1	0.7
CRG02	400	0.7	15	–40 to 150	–40 to 150	10	1.1	0.7
CRG03	400	1.0	15	–40 to 150	–40 to 150	10	1.1	0.7
CRG04	600	1.0	15	–40 to 150	–40 to 150	10	1.1	0.7
CRG05	800	1.0	15	–40 to 150	–40 to 150	10	1.1	0.7

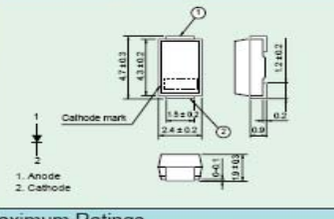
M-FLAT™

Package Appearance	Package Dimensions (mm)	Marking
 Package Number ⑮		Example CMG02 

Part Number	Maximum Ratings					Electrical Characteristics (Max)		
	V_{RRM} (V)	$I_{F(AV)}$ (A)	I_{FSM} (A)	T_j (°C)	T_{stg} (°C)	I_{RRM} (μA)	V_{FM} (V)	@I_{FM} (A)
✱CMC01	400	1.0	30	–40 to 150	–40 to 150	10	1.0	1.0
✱CMC02	400	1.0	30	–40 to 150	–40 to 150	10	1.0	1.0
CMG02	400	2.0	80	–40 to 150	–40 to 150	10	1.1	2.0
CMG03	600	2.0	80	–40 to 150	–40 to 150	10	1.1	2.0

✱: For strobe discharge circuit

I-FLAT™

Package Appearance	Package Dimensions (mm)	Marking
 Package Number ⑯		Example UIJC44 

Part Number	Maximum Ratings					Electrical Characteristics (Max)		
	V_{RRM} (V)	$I_{F(AV)}$ (A)	I_{FSM} (A)	T_j (°C)	T_{stg} (°C)	I_{RRM} (μA)	V_{FM} (V)	@I_{FM} (A)
U1BC44	100	1.0	30	–40 to 150	–40 to 150	10	1.2	1.0
U1GC44	400	1.0	30	–40 to 150	–40 to 150	10	1.2	1.0
✱U1GC44S	400	1.0	30	–40 to 150	–40 to 150	10	1.0	1.0
U1JC44	600	1.0	30	–40 to 150	–40 to 150	10	1.2	1.0

✱: For strobe charge circuit