

# Rectifiers

February 2005

**TOSHIBA CORPORATION**


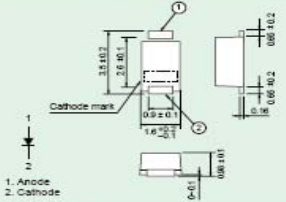

**Semiconductor Company**


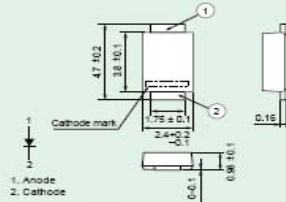

**Discrete Semiconductor Division**

# 5. Product Characteristics


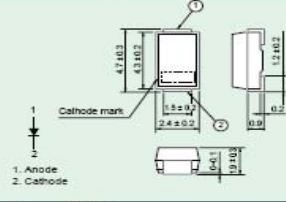

## 5.1 General-Purpose Rectifiers

### ►► Single

S-FLAT™	Package Appearance	Package Dimensions (mm)	Marking					
	 Package Number ⑬	 1. Anode 2. Cathode	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	 1. Anode 2. Cathode	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	 1. Anode 2. Cathode	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