TOSHIBA Rectifier Silicon Diffused Type

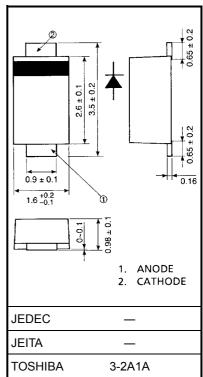
CRG01, CRG02

General Purpose Rectifier Applications

- Average forward current: $I_F (AV) = 0.7 A$
- Repetitive peak reverse voltage: $V_{RRM} = 100, 400 V$
- Suitable for compact assembly due to small surface-mount package "S-FLATTM" (Toshiba package name)

Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Repetitive peak reverse voltage	CRG01	- V _{RRM}	100	V	
	CRG02		400		
Average forward current		I _{F(AV)}	0.7	А	
Peak one cycle surge forward current (non-repetitive)		IFSM	15 (50 Hz)	A	
			16.5 (60 Hz)		
Junction temperature		Tj	-40~150	°C	
Storage temperature		T _{stg}	-40~150	°C	



Weight: 0.013 g (typ.)

Electrical Characteristics (Ta = 25°C)

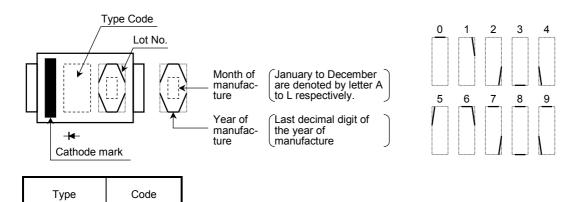
Characteristics	Symbol	Test Condition	Тур.	Max	Unit	
Peak forward voltage	V _{FM (1)}	I _{FM} = 0.1 A	0.88		– I.1 V	
	V _{FM (2)}	I _{FM} = 0.7 A	_	1.1		
	V _{FM (3)}	I _{FM} = 1.0 A	1.1	_		
Repetitive peak reverse current	I _{RRM}	V _{RRM} = Rated	_	10	μA	
Thermal resistance	rth (j-a)	Device mounted on a ceramic board (soldering land: 2 mm \times 2 mm)	_	65	°C/W	
		Device mounted on a glass-epoxy board (soldering land: 6 mm \times 6 mm)	— 130		0/11	

Unit: mm



Marking

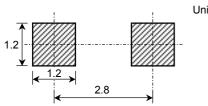
Following Indicates the Date of Manufacture



Standard Soldering Pad

CRG01

CRG02

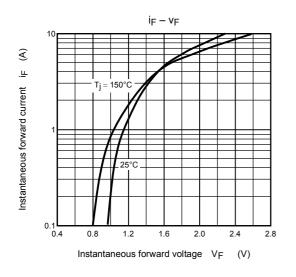


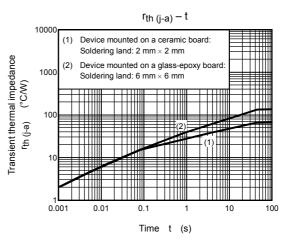
G1

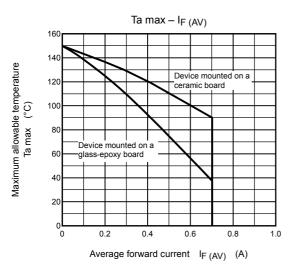
G2

Unit: mm

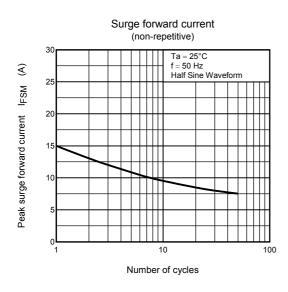
TOSHIBA







	Device mounted on a ceramic board	Device mounted on a glass-epoxy board		
Soldering land	2 mm [□]	6 mm [□]		
Board size	50 mm [□]	50 mm□		
Board	0.64 t	1.6 t		



RESTRICTIONS ON PRODUCT USE

Handbook" etc.,

- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
 In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.