TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

U2BC44,U2GC44,U2JC44

GENERAL PURPOSE RECTIFIER APPLICATIONS

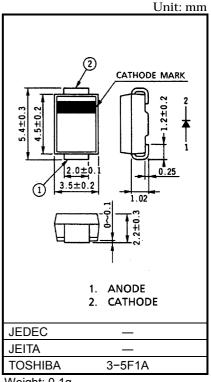
Repetitive Peak Reverse Voltage : V_{RRM} = 100, 400, 600 V

• Average Forward Current : IF (AV) = 2.0 A

Mini Plastic Mold Package

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC			SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage		U2BC44		100	V	
		U2GC44	V_{RRM}	400		
		U2JC44		600		
Average Forward Current	On Ceramic Substrate		I _{F (AV)}	2.0 (Ta = 45°C)	A	
	On Glass-epoxy Substrate			1.3 (Ta = 25°C)		
Peak One Cycle Surge Forward Current (Non-Repetitive)			leou	80 (50Hz)	Α	
			IFSM	88 (60Hz)	_ ^	
Junction Temparature Range			Tj	-40~150	°C	
Storage Temparature Range			T _{stg}	-40~150	°C	

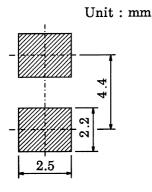


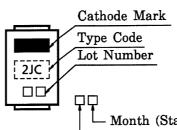
Weight: 0.1g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} = 2.0 A		_	_	1.2	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = Rated		_	_	10	μA
Thermal Resistance	R _{th (j−a)}	DC	On ceramic substrate	_	_	50	°C/W
Thermal resistance			On glass-epoxy substrate	_	_	110	C/W

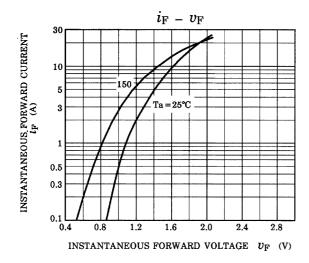
STANDARD SOLDERING PAD MARKING

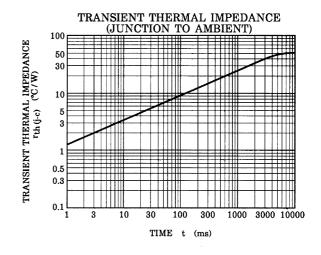


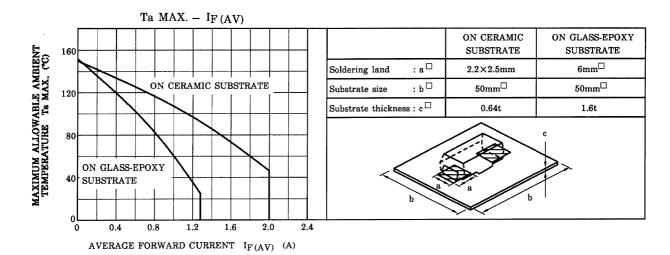


CODE	TYPE		
2BC	U2BC44		
2GC	U2GC44		
2JC	U2JC44		

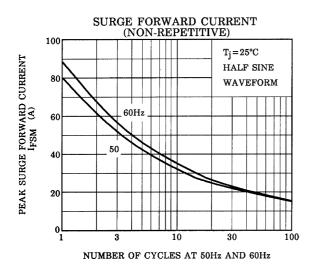
- Month (Starting from Alphabet A)
- Year (Last Number of the Christian Era)







2



RESTRICTIONS ON PRODUCT USE

000707EAA

- 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 Handbook" etc..
- 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.