

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

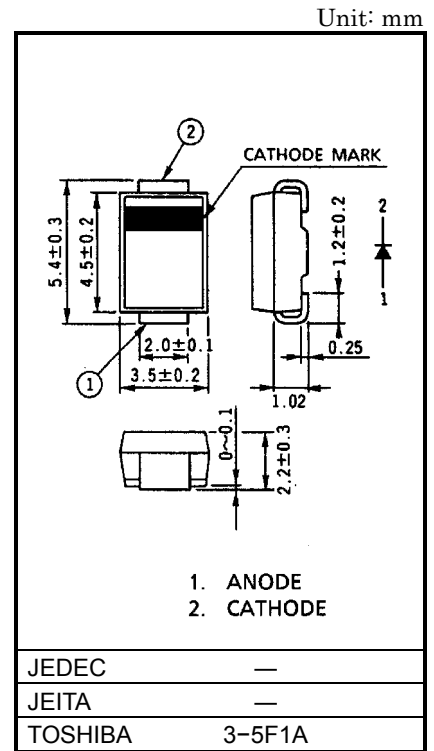
## U2BC44,U2GC44,U2JC44

### GENERAL PURPOSE RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 100, 400, 600 \text{ V}$
- Average Forward Current :  $I_F (AV) = 2.0 \text{ A}$
- Mini Plastic Mold Package

### MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U2BC44	$V_{RRM}$	100	V
	U2GC44		400	
	U2JC44		600	
Average Forward Current	On Ceramic Substrate	$I_F (AV)$	2.0 ( $T_a = 45^\circ\text{C}$ )	A
	On Glass-epoxy Substrate		1.3 ( $T_a = 25^\circ\text{C}$ )	
Peak One Cycle Surge Forward Current (Non-Repetitive)		$I_{FSM}$	80 (50Hz) 88 (60Hz)	A
Junction Temperature Range		$T_j$	-40~150	$^\circ\text{C}$
Storage Temperature Range		$T_{stg}$	-40~150	$^\circ\text{C}$

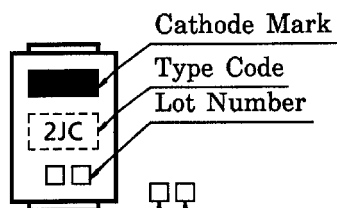
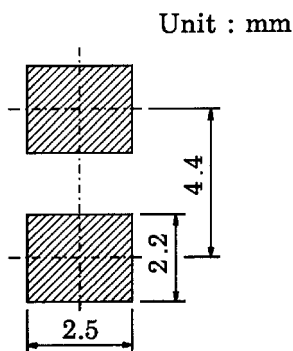


Weight: 0.1g

### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 2.0 \text{ A}$	—	—	1.2	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = \text{Rated}$	—	—	10	$\mu\text{A}$
Thermal Resistance	$R_{th(j-a)}$	DC				
		On ceramic substrate	—	—	50	$^\circ\text{C/W}$
		On glass-epoxy substrate	—	—	110	

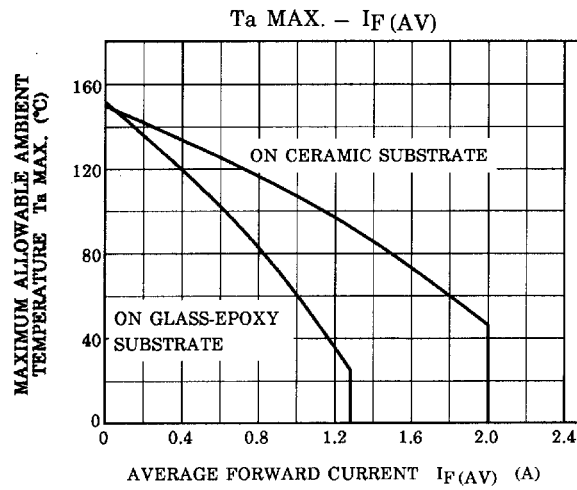
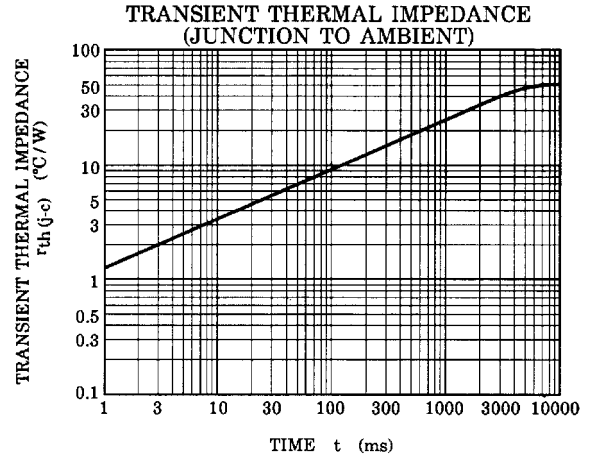
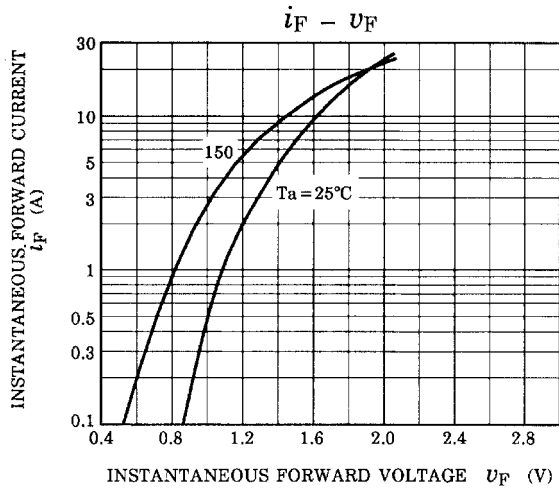
### STANDARD SOLDERING PAD MARKING



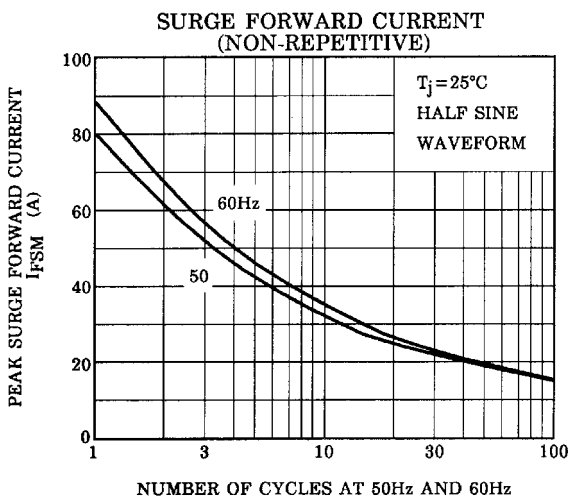
CODE	TYPE
2BC	U2BC44
2GC	U2GC44
2JC	U2JC44

Month (Starting from Alphabet A)

Year (Last Number of the Christian Era)



	ON CERAMIC SUBSTRATE	ON GLASS-EPOXY SUBSTRATE
Soldering land : a □	2.2×2.5mm	6mm □
Substrate size : b □	50mm □	50mm □
Substrate thickness : c □	0.64t	1.6t



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