

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

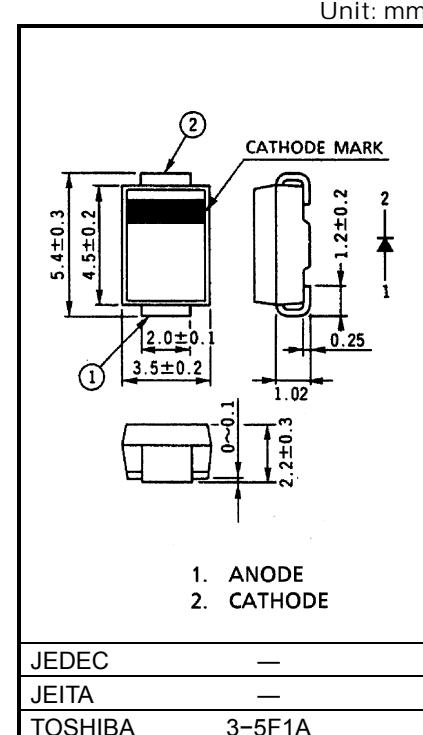
**U2BC44, U2GC44, U2JC44**

## GENERAL PURPOSE RECTIFIER APPLICATIONS

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

**MAXIMUM RATINGS (Ta = 25°C)**

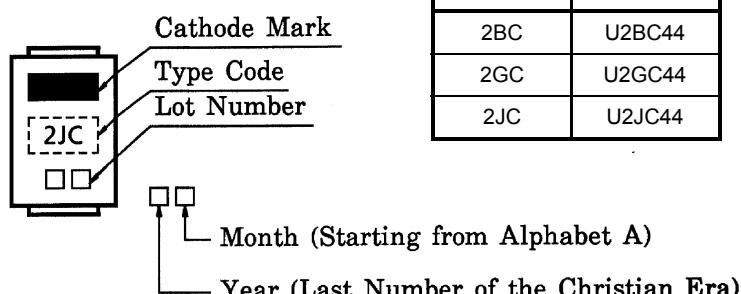
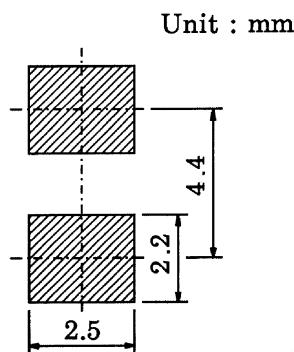
CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U2BC44	$V_{RRM}$	100	V
	U2GC44		400	
	U2JC44		600	
Average Forward Current	On Ceramic Substrate	$I_F (AV)$	2.0 (Ta = 45°C)	A
	On Glass-epoxy Substrate		1.3 (Ta = 25°C)	
Peak One Cycle Surge Forward Current (Non-Repetitive)		$I_{FSM}$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



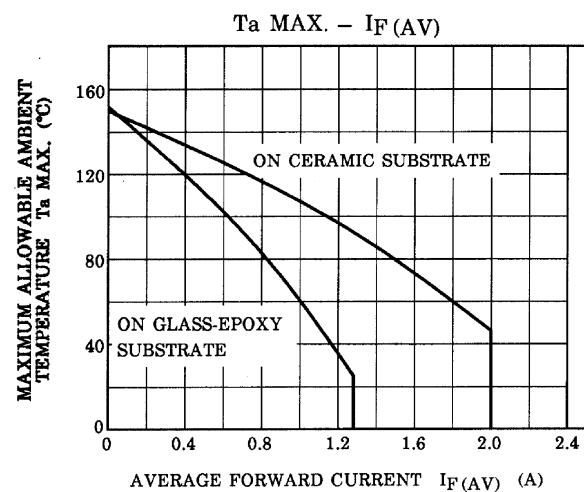
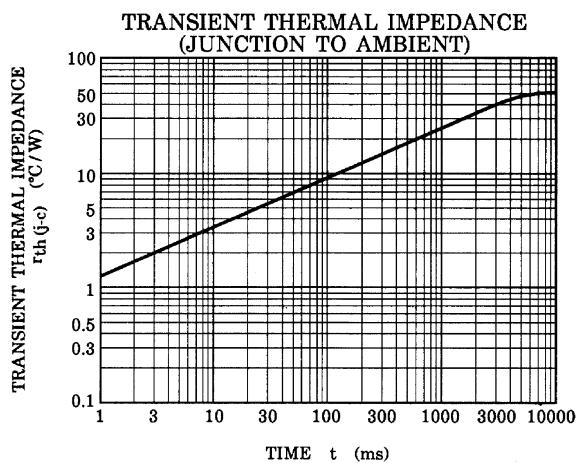
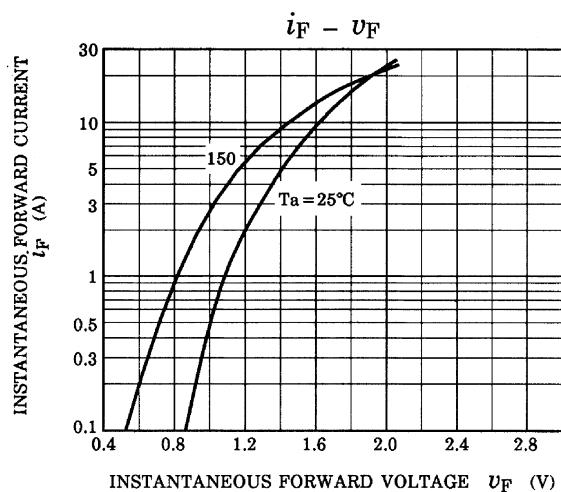
Weight: 0.1g

**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

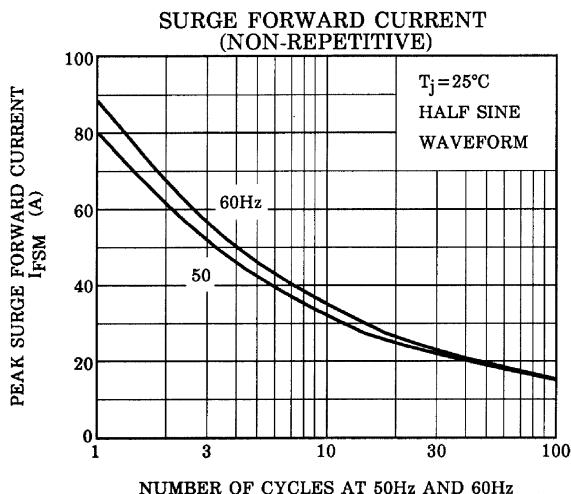
CHARACTERISTIC	SYMBOL	TEST CONDITION		MIN	TYP.	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 2.0$ A		—	—	1.2	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = \text{Rated}$		—	—	10	μA
Thermal Resistance	$R_{th} (j-a)$	DC	On ceramic substrate	—	—	50	°C / W
			On glass-epoxy substrate	—	—	110	

**STANDARD SOLDERING PAD MARKING**

CODE	TYPE
2BC	U2BC44
2GC	U2GC44
2JC	U2JC44



	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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000707EAA

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