

TOSHIBA SUPER FAST RECOVERY DIODE SILICON EPITAXIAL TYPE

5JUZ47

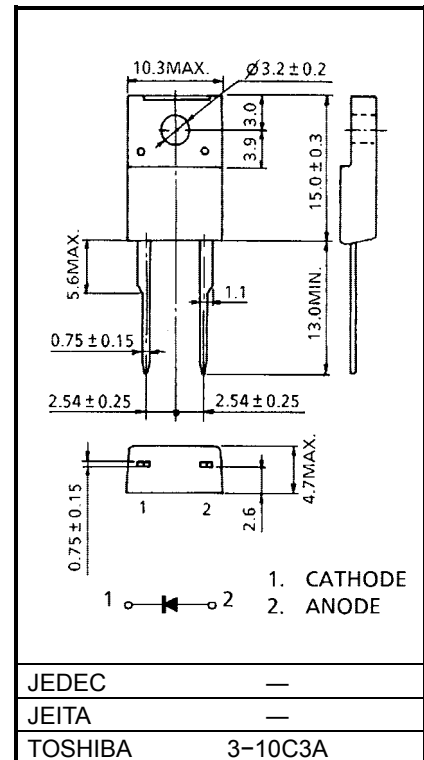
Unit: mm

SWITCHING MODE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage : $V_{RRM} = 600V$
- Average Forward Current : $I_F (AV) = 5A$
- Ultra Fast Reverse-Recovery Time : $t_{rr} = 100ns$
- Low Switching Losses and Low Output Noise.

MAXIMUM RATINGS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Current	$I_F (AV)$	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50Hz) 60 (60Hz)	A
Junction Temperature	T_j	-40~150	$^\circ C$
Storage Temperature Range	T_{stg}	-40~150	$^\circ C$

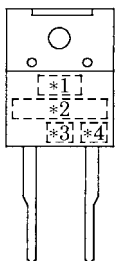


Weight: 2.0 g

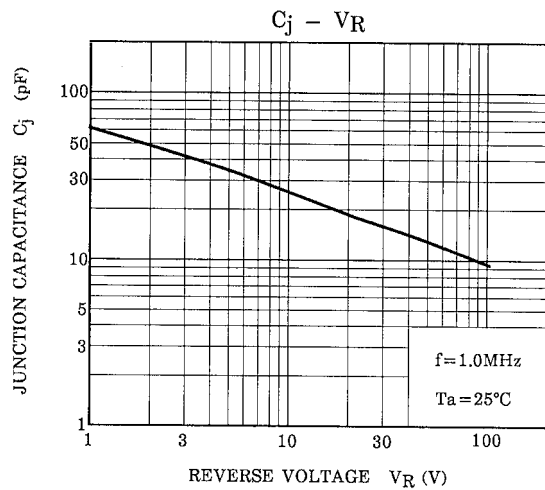
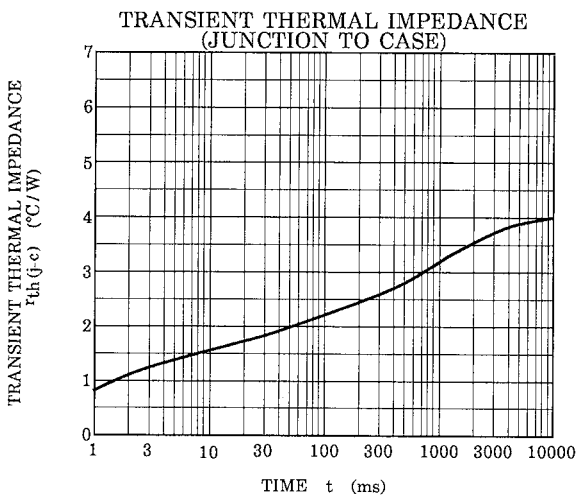
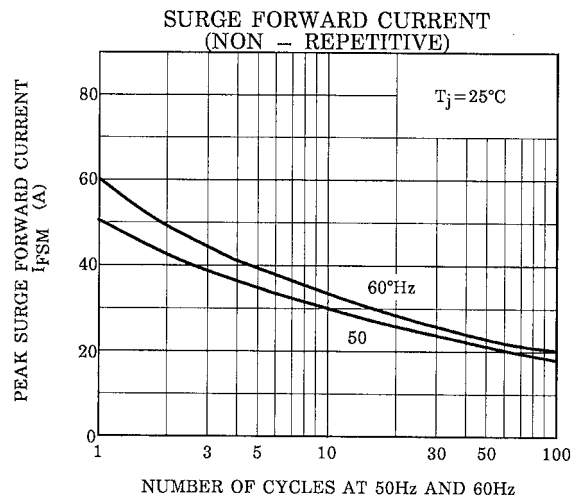
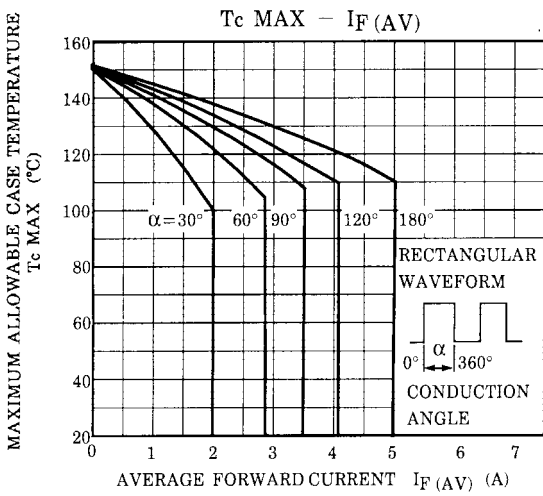
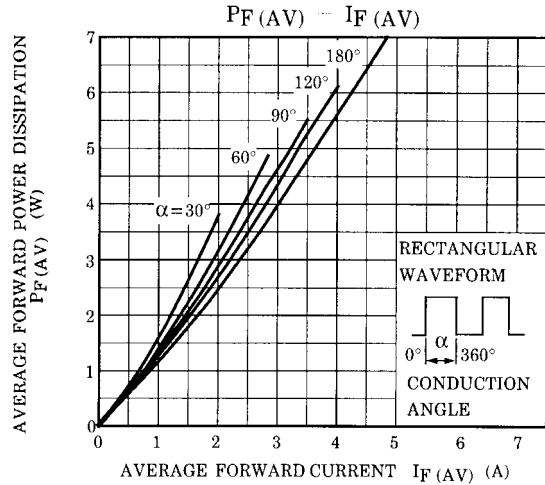
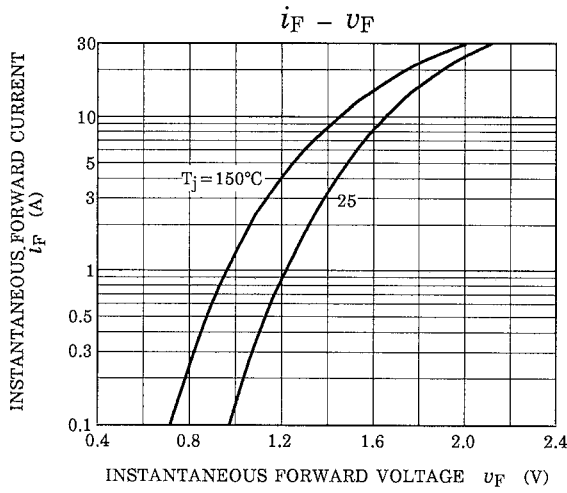
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 5A$	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 600V$	—	100	μA
Reverse Recovery Time	t_{rr}	$I_F = 2A, di / dt = -20A / \mu s$	—	100	ns
Forward Recovery Time	t_{fr}	$I_F = 1A$	—	200	ns
Thermal Resistance	$R_{th(j-c)}$	DC	—	4.0	$^\circ C / W$

MARKING



* Number	SYMBOL	MARK
* 1	Toshiba Product Mark	
* 2	Type Code	5JUZ47
* 3	Polarity Mark	
* 4	Lot Number — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)	



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000707EAA

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