

TOSHIBA SUPER FAST RECOVERY DIODE SILICON EPITAXIAL TYPE

## 5JUZ47

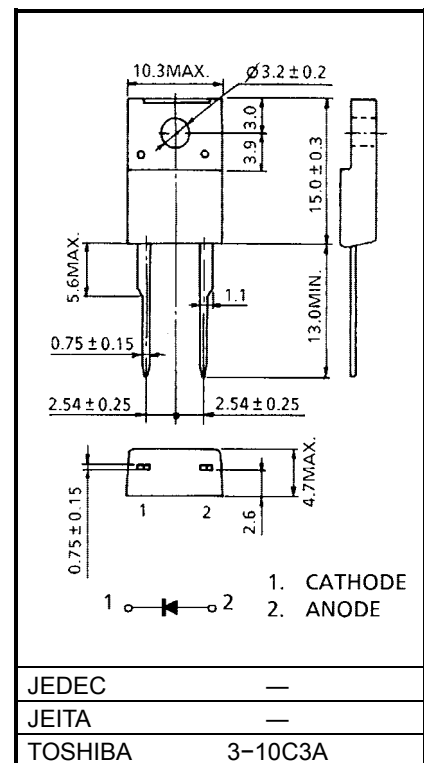
Unit: mm

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 (Ta = 25°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	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C

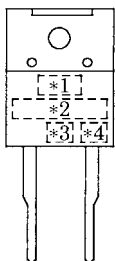


Weight: 2.0 g

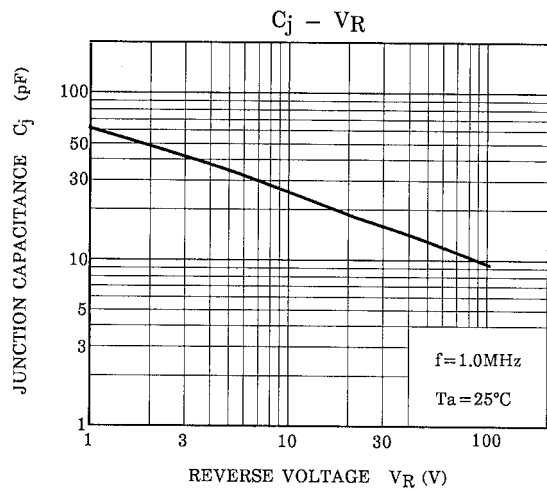
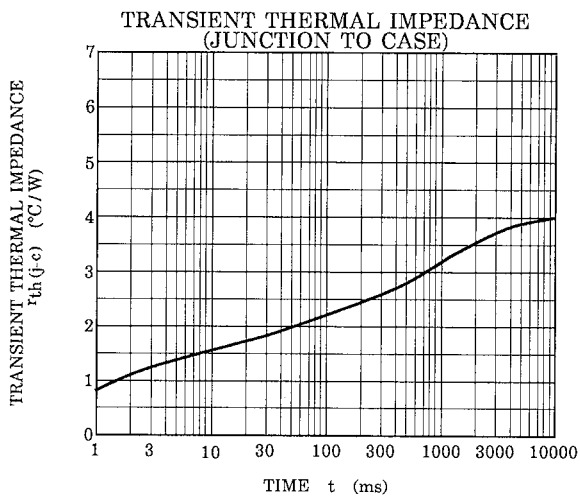
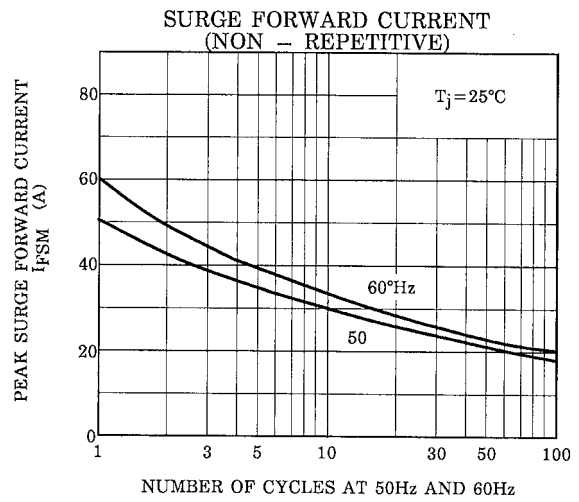
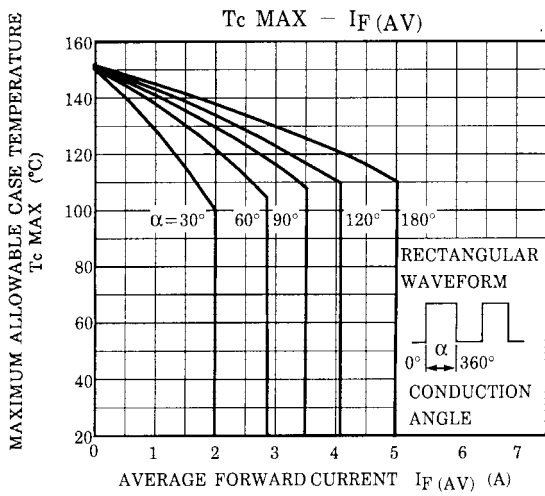
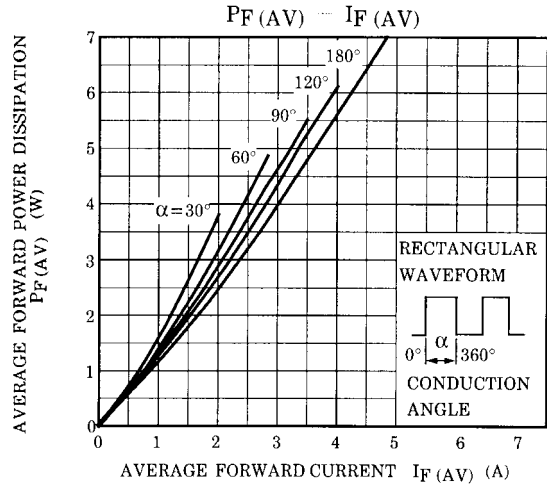
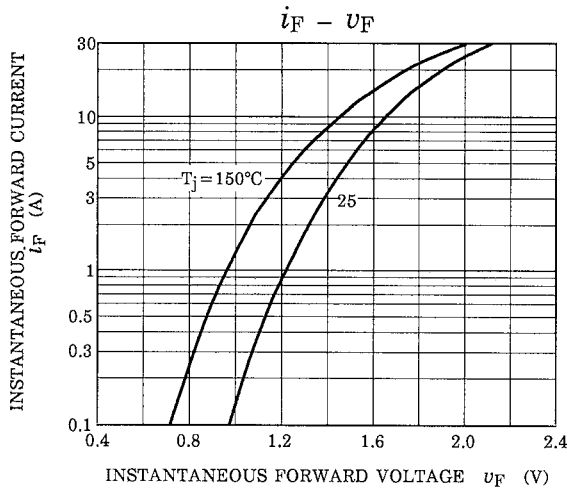
### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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	°C/W

### MARKING



* Number	SYMBOL	MARK
* 1	Toshiba Product Mark	
* 2	Type Code	5JUZ47
* 3	Polarity Mark	
* 4	Lot Number <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px; margin-left: 10px;"></div> <span style="margin-left: 5px;">— Month (Starting from Alphabet A)</span>  <span style="margin-left: 5px;">— Year (Last Number of the Christian Era)</span> </div>	



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