

TOSHIBA HIGH EFFICIENCY RECTIFIER SILICON EPITAXIAL TYPE

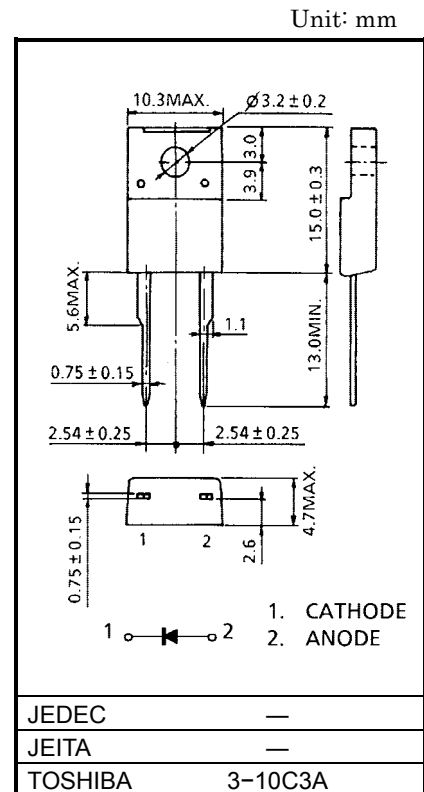
## 5JLZ47

SWITCHING MODE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 600V$
- Ultra Fast Reverse-Recovery Time :  $t_{rr} = 50ns$
- 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)	A
		60 (60Hz)	
Junction Temperature	$T_j$	-40~150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~150	$^\circ C$

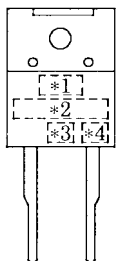


Weight: 2.0 g

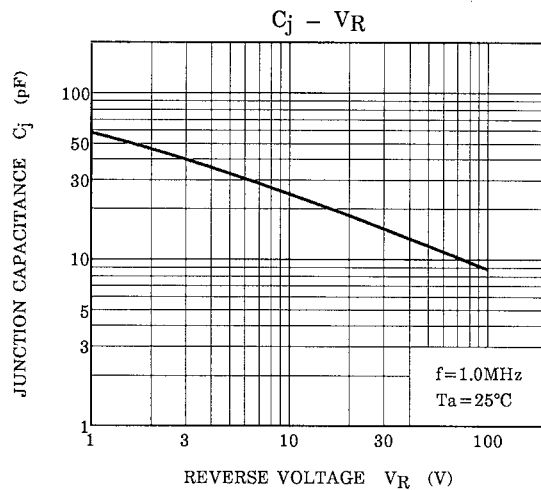
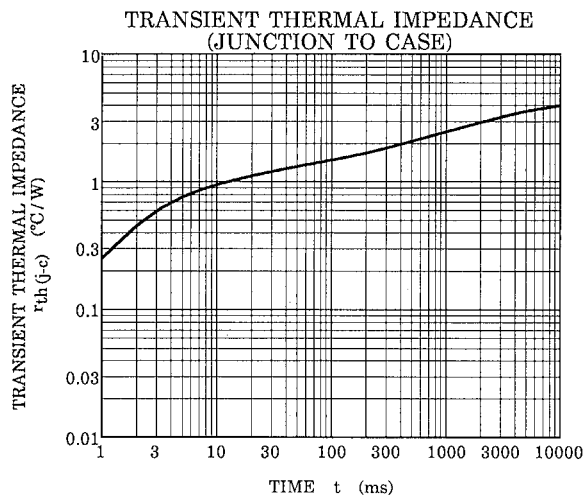
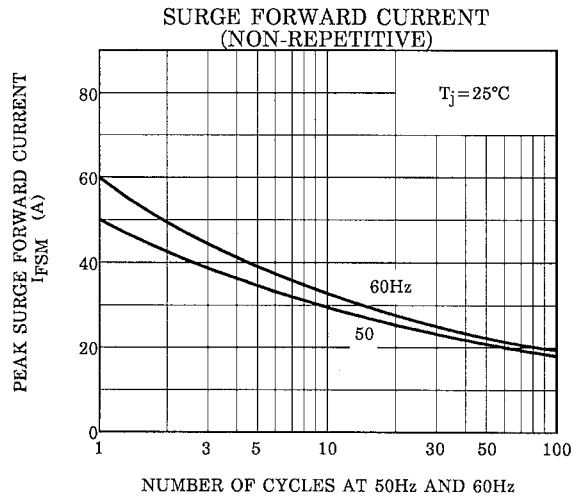
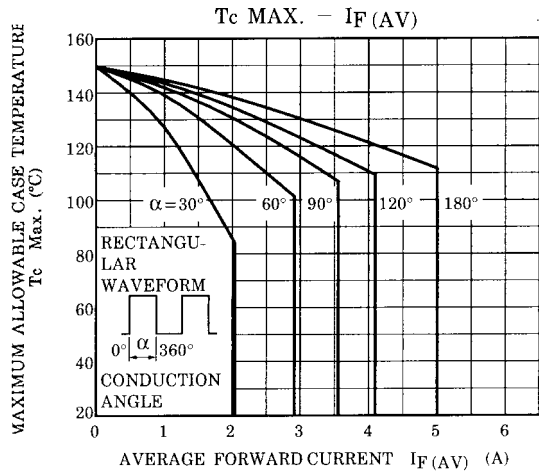
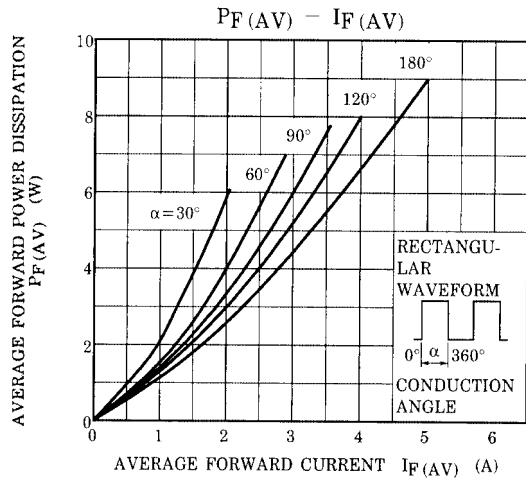
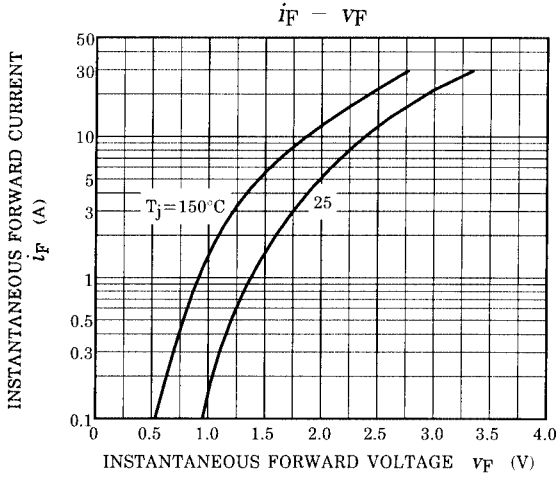
### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 5A$	—	2.0	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = 600V$	—	50	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 2A, di / dt = -20A / \mu s$	—	50	ns
Forward Recovery Time	$t_{fr}$	$I_F = 1A$	—	150	ns
Thermal Resistance	$R_{th(j-c)}$	DC	—	4.0	$^\circ C / W$

### MARKING



* Number	SYMBOL	MARK
* 1	Toshiba Product Mark	
* 2	TYPE	5JLZ47
* 3	Polarity Mark	
* 4	Lot Number  Month (Starting from Alphabet A) Year (Last Number of the Christian Era)	



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