

TOSHIBA SUPER FAST RECOVERY DIODE SILICON EPITAXIAL TYPE

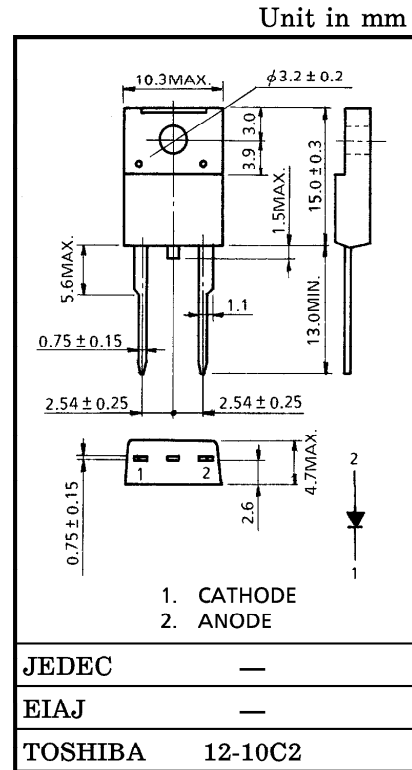
5JUZ47

SWITCHING TYPE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

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

MAXIMUM RATINGS

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

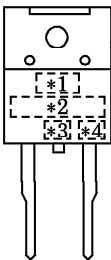


Weight : 2.0g

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

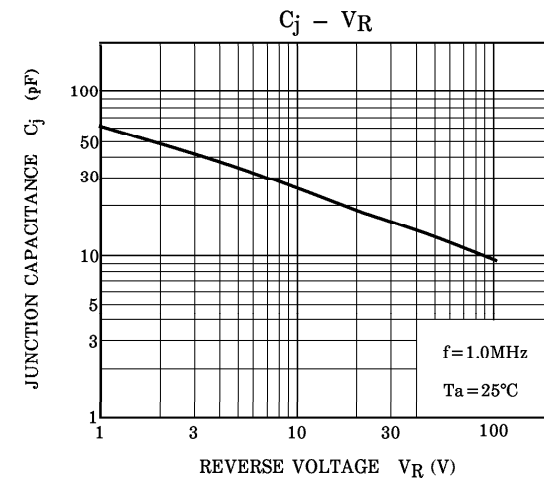
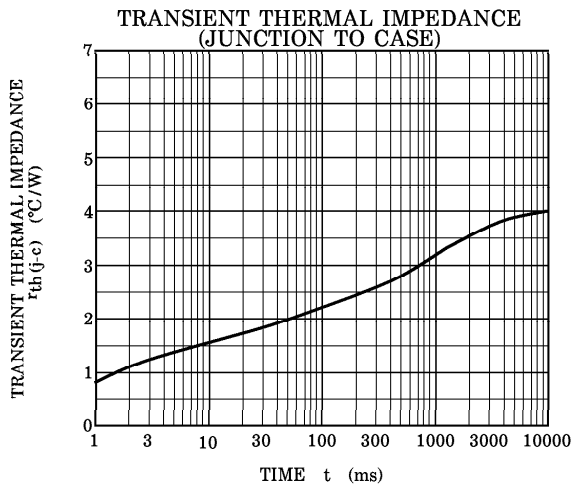
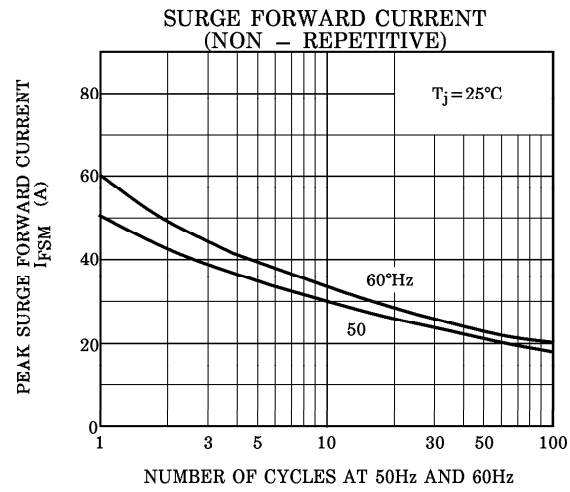
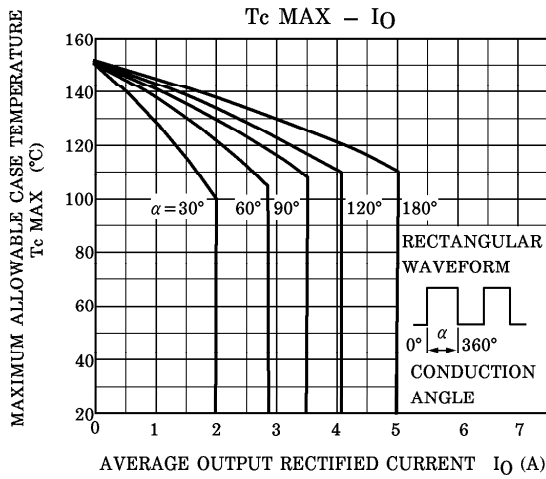
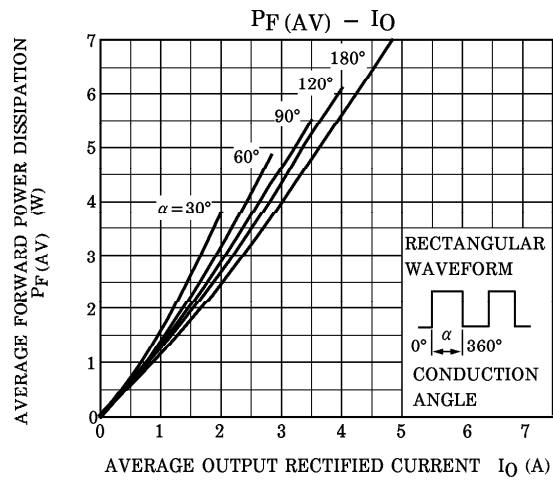
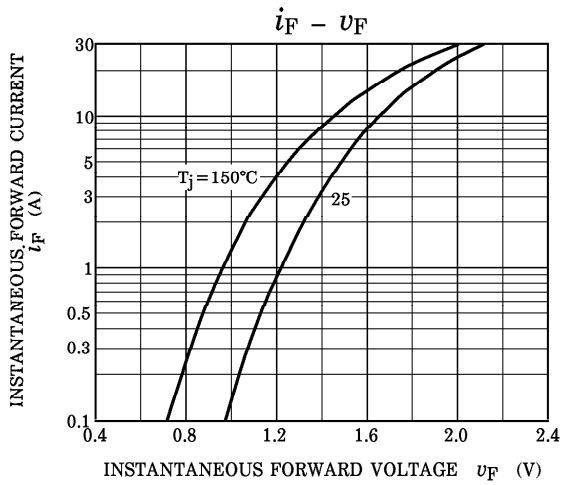
MARKING



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

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