

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

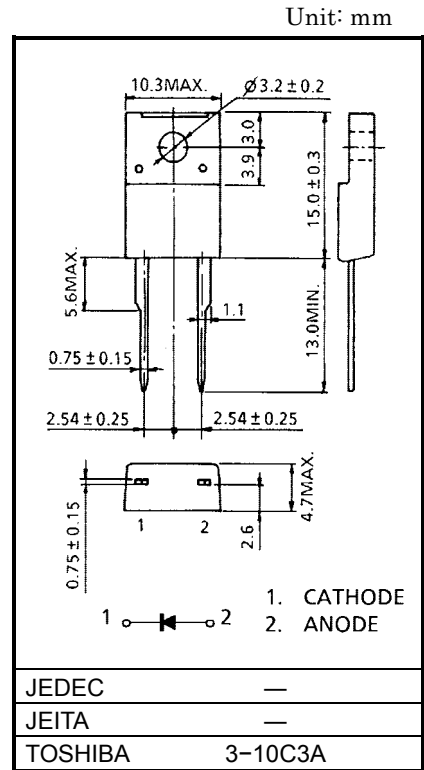
5GWJZ47

HIGH SPEED RECTIFIER APPLICATION

- Repetitive Peak Reverse Voltage : $V_{RRM} = 40V$
- Average Forward Current : $I_F (AV) = 5A$
- Low Forward Voltage : $V_{FM} = 0.55V (Max.)$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	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	-40~125	$^\circ C$
Storage Temperature Range	T_{stg}	-40~150	$^\circ C$



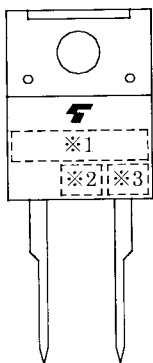
Weight: 2.0 g

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

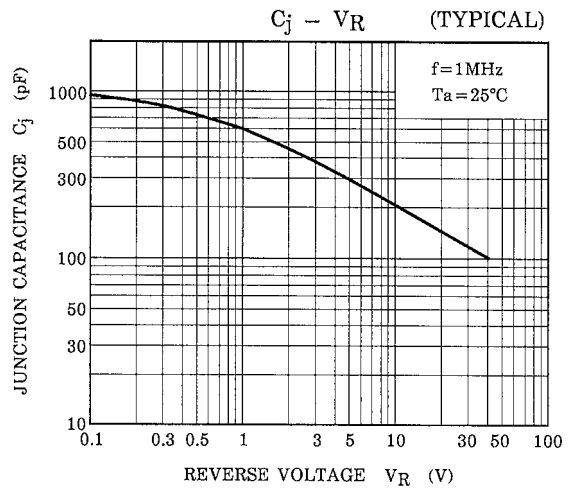
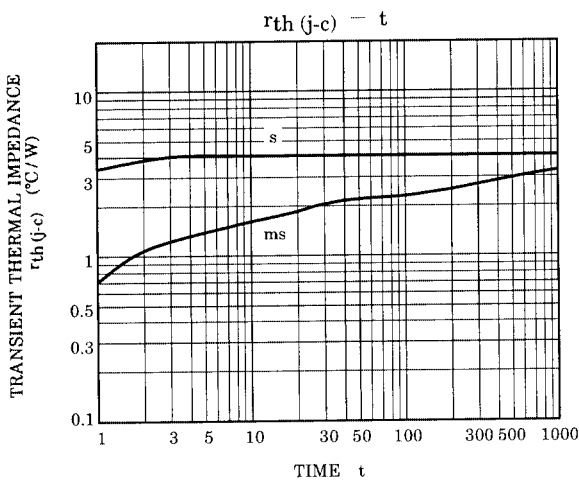
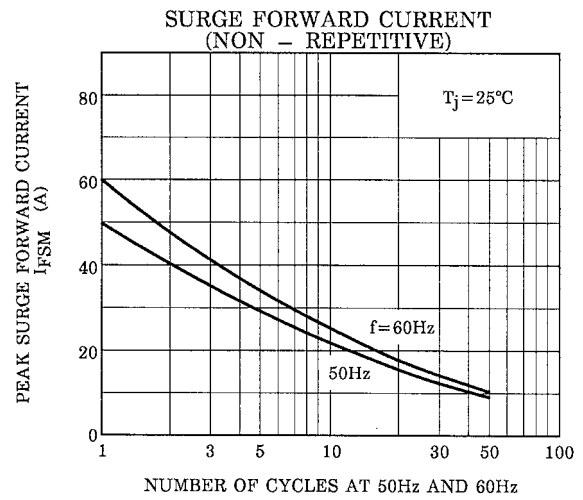
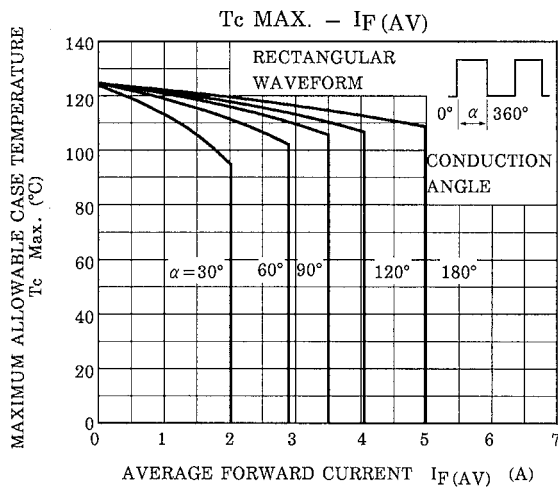
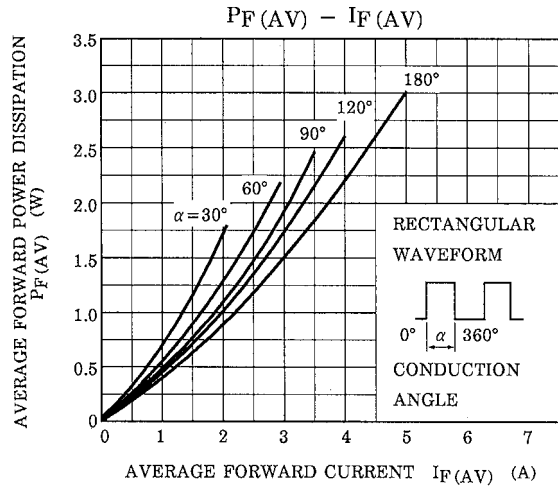
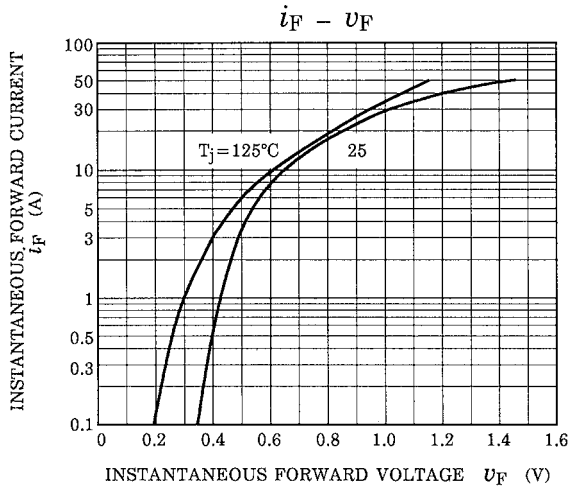
CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 5A$	—	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 40V$	—	3.5	mA
Junction Capacitance	C_j	$V_R = 10V, f = 1MHz$	200	—	pF
Thermal Resistance (With Heat Sink)	$R_{th(j-c)}$	Junction to Case (Note 1)	—	4.0	$^\circ C / W$

Note 1: Apply silicone grease to the contact surface between heat sink and case of rectifier.

MARKING



*1	TYPE	5GWJZ47
*2	Polarity	←
*3	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;"></div> <div style="margin-right: 5px;">—</div> <div>Month (Starting from Alphabet A)</div> </div> <div style="margin-top: 5px;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="margin-right: 5px;">—</div> <div>Year (Last Number of the Christian Era)</div> </div>



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