

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

5FWJ2C42

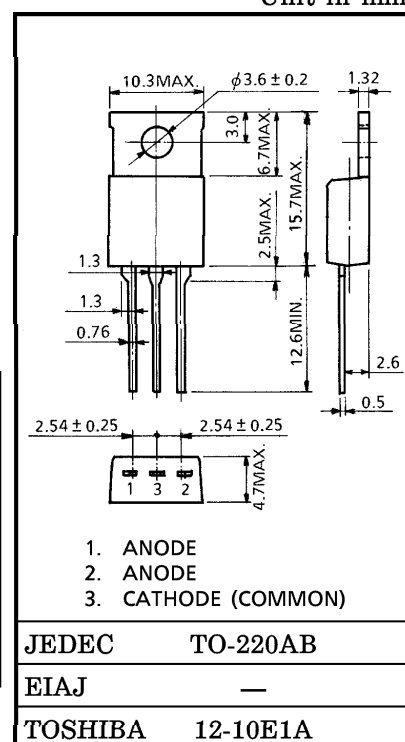
HIGH SPEED RECTIFIER APPLICATION

Unit in mm

- Average Output Rectified Current : $I_O = 5.0A$
- Repetitive Peak Reverse Voltage : $V_{RRM} = 30V$
- Low Forward Voltage : $V_{FM} = 0.55V$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Forward Current ($T_c = 114^\circ C$)	I_O	5.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50Hz)	A
Junction Temperature	T_j	$-40 \sim 125$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$



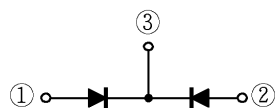
Weight : 2.0g

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

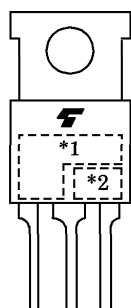
CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 2.5A$	—	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 30V$	—	3.5	mA
Reverse Recovery Time	t_{rr}	$I_{FM} = 1.0A$, $di/dt = -30A/\mu s$	—	35	ns
Junction Capacitance	C_j	$V_R = 10V$, $f = 1.0MHz$	125	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	3.0	$^\circ C/W$

 V_{FM} , I_{RRM} , t_{rr} , C_j : A value of one cell.

POLARITY



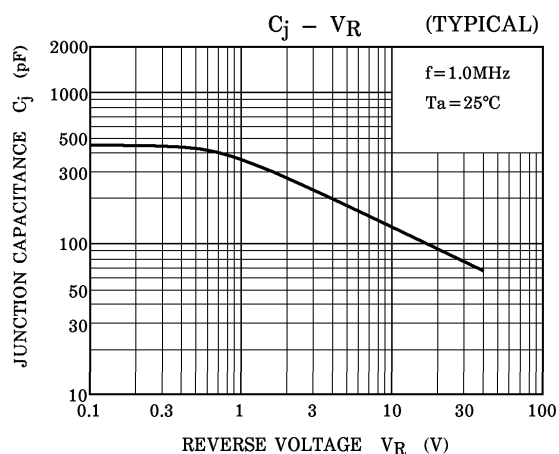
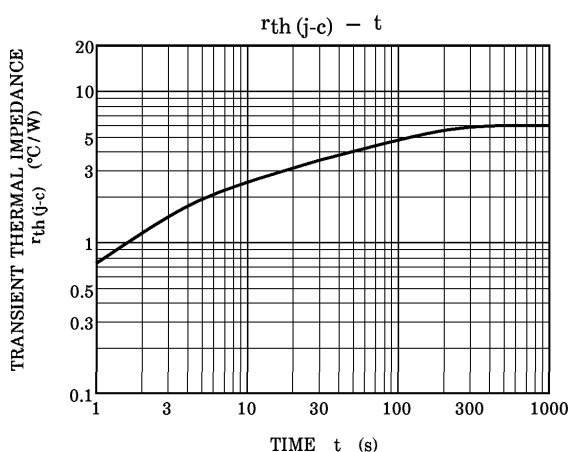
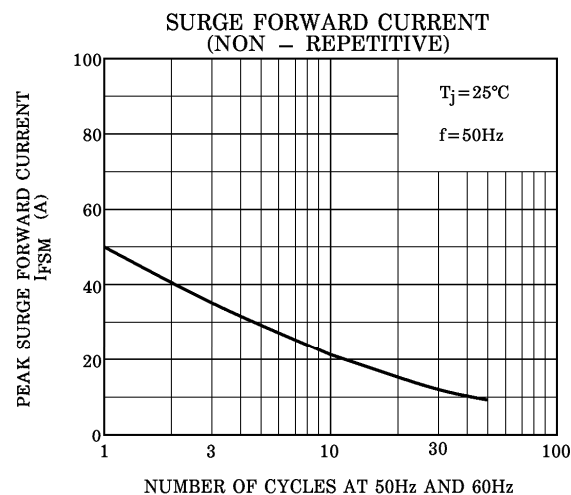
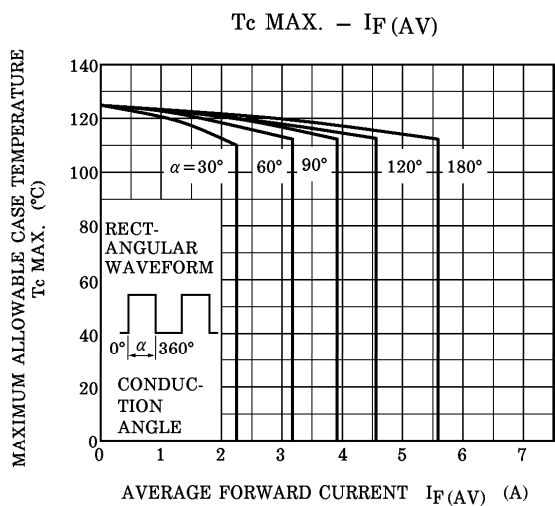
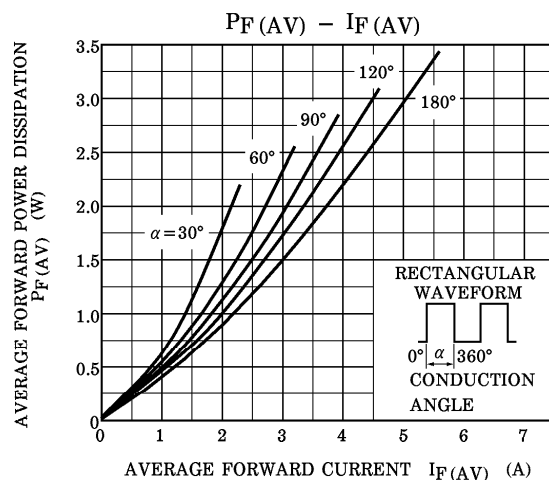
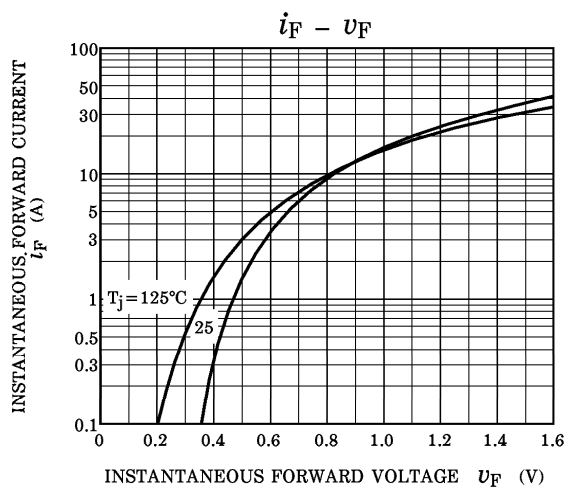
MARKING



*1	TYPE	5FWJ2C42
*2	Lot Number [] [] — Month (Starting from Alphabet A) [] [] — Year (Last Number of the Christian Era)	

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