

TOSHIBA SCHOTTKY BARRIER RECTIFIER TRENCH SCHOTTKY BARRIER TYPE

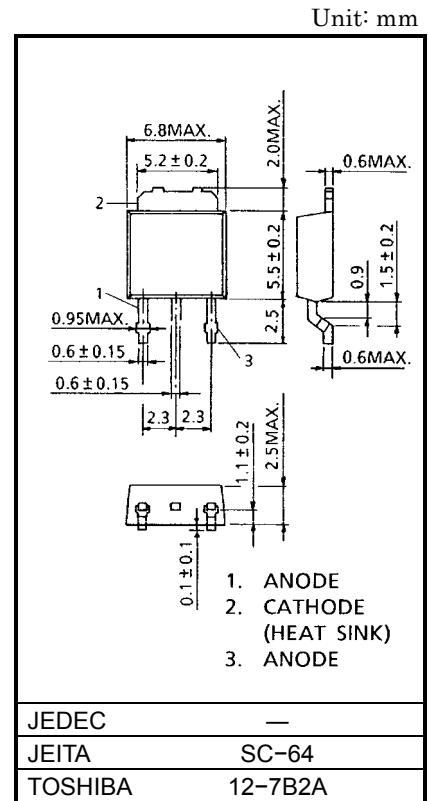
U5FWK2C42

SWITCHING MODE POWER SUPPLY APPLICATION

- Peak Forward Voltage : $V_{FM} = 0.40 \text{ V (Max)}$
- Repetitive Peak Reverse Voltage : $V_{RRM} = 30 \text{ V}$
- Average Output Rectified Current : $I_O = 5 \text{ A}$

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

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



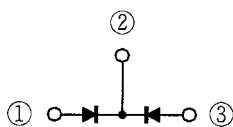
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Weight: 0.3g

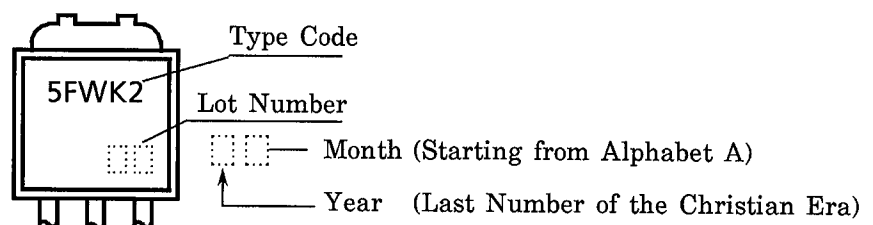
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage (Note)	V_{FM}	$I_{FM} = 2.5 \text{ A}$	—	—	0.40	V
Repetitive Peak Reverse Current (Note)	I_{RRM}	$V_{RRM} = 30 \text{ V}$	—	—	0.3	mA
Junction Capacitance (Note)	C_j	$V_R = 10 \text{ V}, f = 1.0 \text{ MHz}$	—	145	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total	—	—	3.5	$^\circ\text{C} / \text{W}$

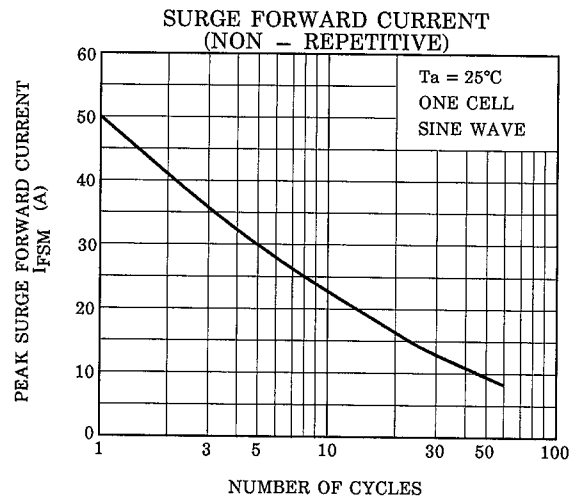
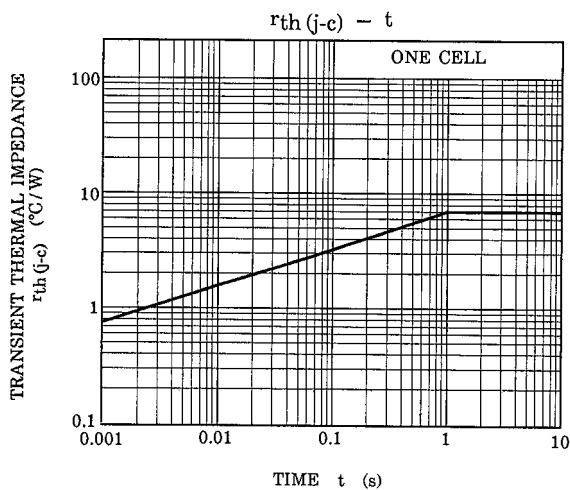
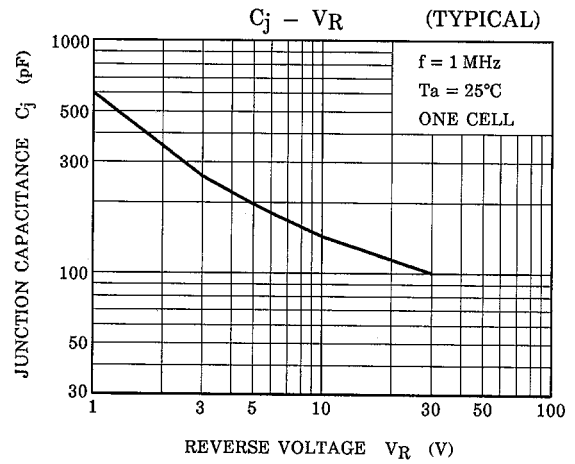
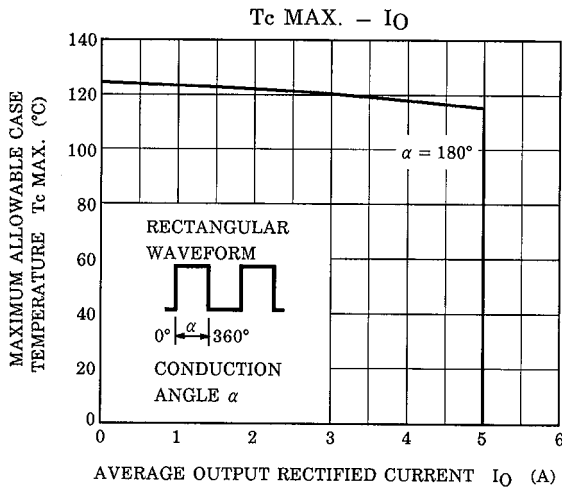
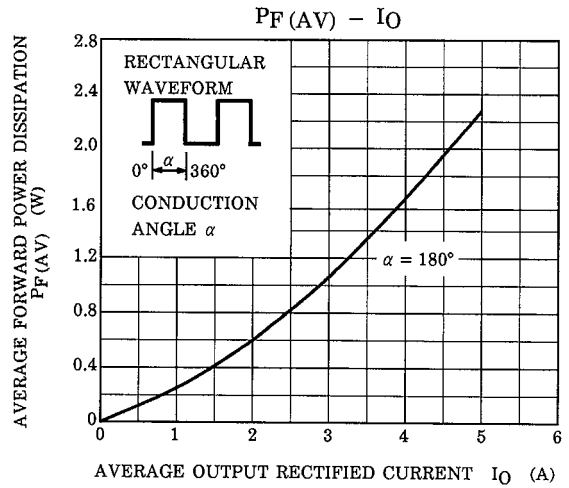
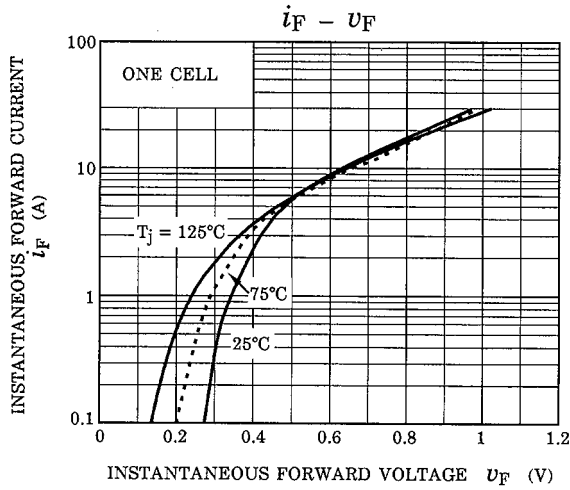
Note: A Value of one cell

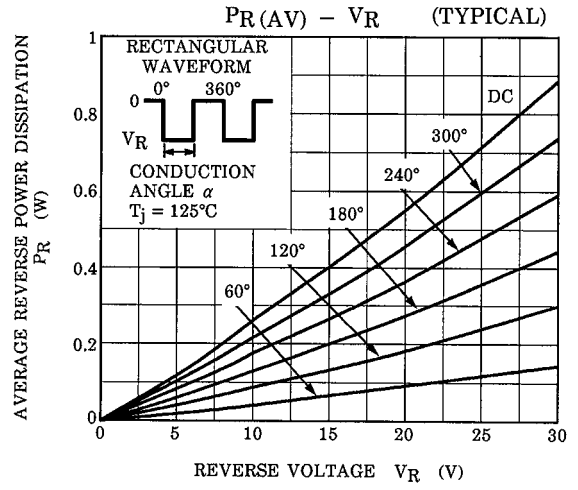
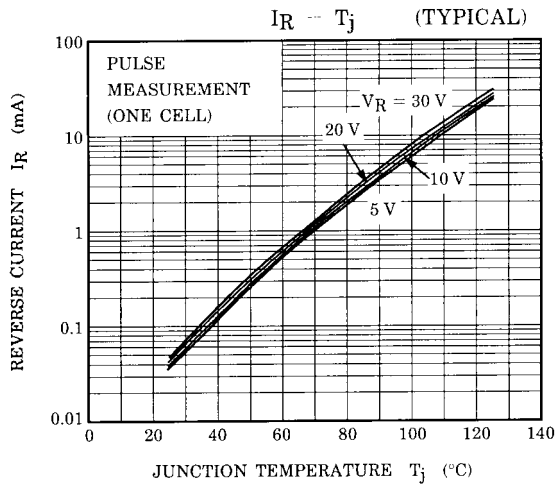
POLARITY



MARKING







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