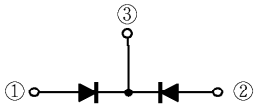
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

2GWJ2C42, U2GWJ2C42

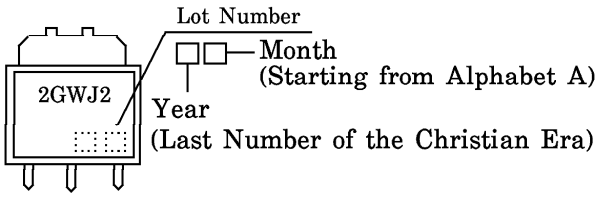
SWITCHING TYPE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

- Average Output Rectified Current : I_O=2A
- Repetitive Peak Reverse Voltage : V_{RRM}=40V
- Low Switching Losses and Output Noise.

POLARITY

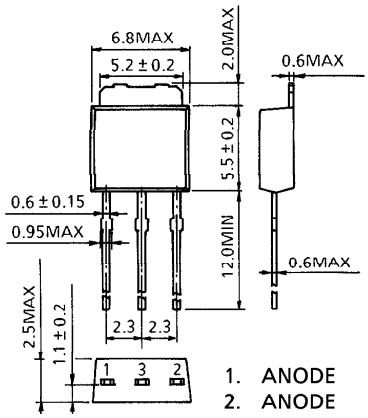


MARKING



Unit in mm

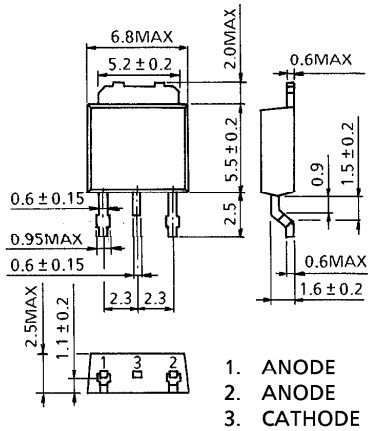
2GWJ2C42



1. ANODE
2. ANODE
3. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	12-7B1A

U2GWJ2C42



1. ANODE
2. ANODE
3. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	12-7B2A

Weight : 0.55g

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Output Rectified Current	I_O	2	A
Peak One Cycle Surge Forward Current (Sine Wave)	I_{FSM}	15 (50Hz)	A
		16.5 (60Hz)	
Junction Temperature	T_j	−40~125	°C
Storage Temperature Range	T_{stg}	−40~150	°C

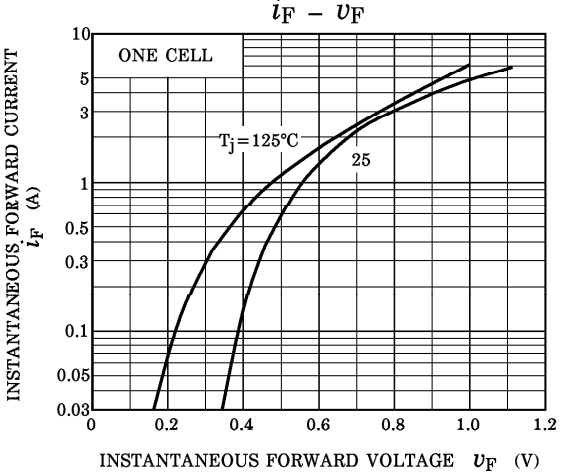
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	V_{FM}	I_{FM}=1.0A	—	0.55	V
Repetitive Peak Reverse Current (Note 1)	I_{RRM}	V_{RRM}=40V	—	1.0	mA
Junction Capacitance (Note 1)	C_j	V_R=10V, f=1MHz	45	—	pF
Thermal Resistance (Junction to Case)	$R_{th\ (j-c)}$	DC	—	8	°C / W
Thermal Resistance (junction to Ambient)	$R_{th\ (j-a)}$	DC (250mm * 0.8mm Ceramic)	—	125	°C / W

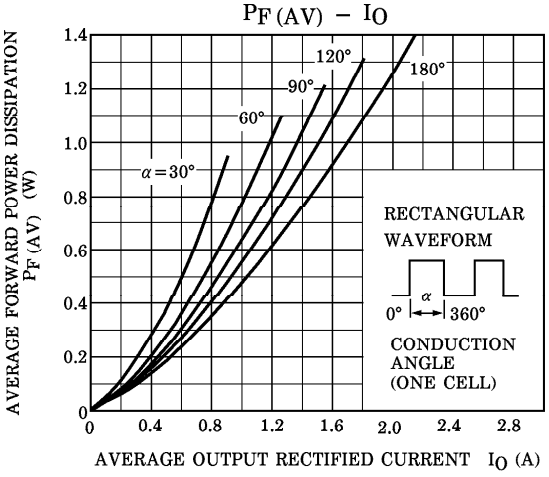
Note 1 : A value of one cell.

961001EAA2

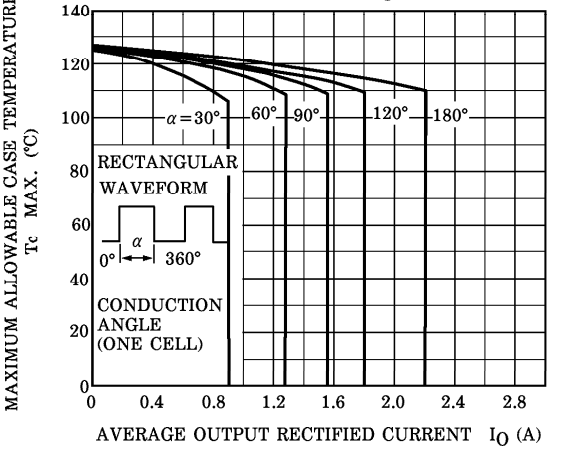
$i_F - v_F$



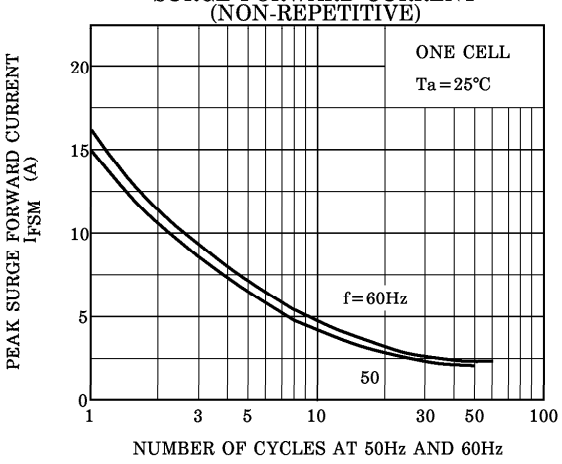
$P_{F(AV)} - I_O$



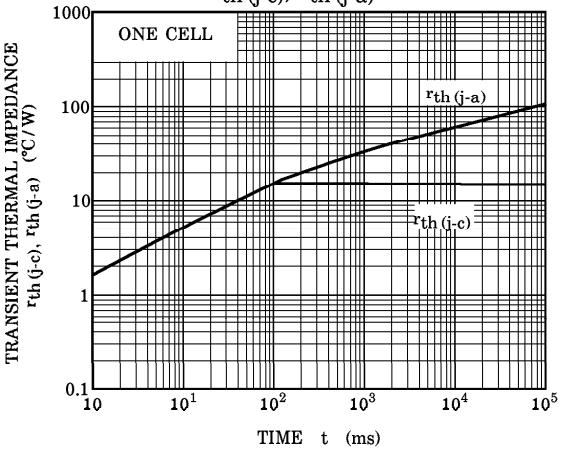
Tc MAX. – I_O



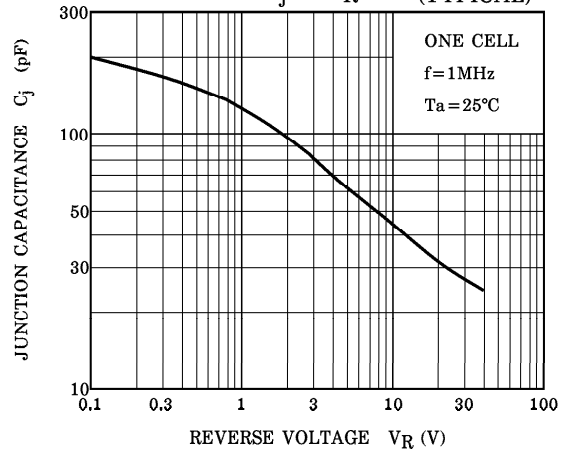
SURGE FORWARD CURRENT (NON-REPETITIVE)



$r_{th(j-c)}$, $r_{th(j-a)}$ – t

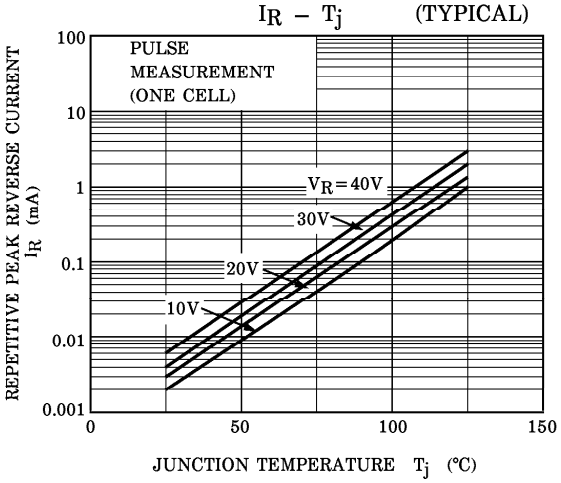


$C_j - V_R$ (TYPICAL)



961001EAA2'

I_R – T_j (TYPICAL)



$P_{R(AV)}$ – V_R (TYPICAL)