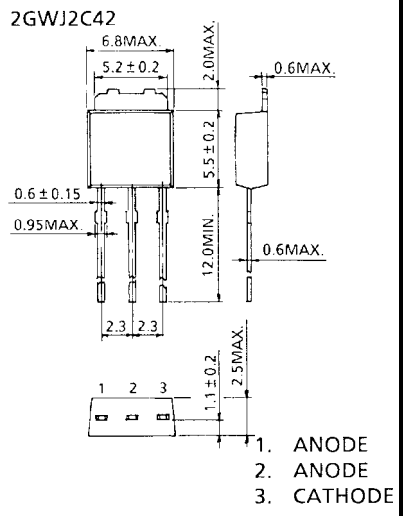
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

2GWJ2C42,U2GWJ2C42

SWITCHING MODE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

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

Unit: mm



JEDEC	—
JEITA	—
TOSHIBA	12−7B1A

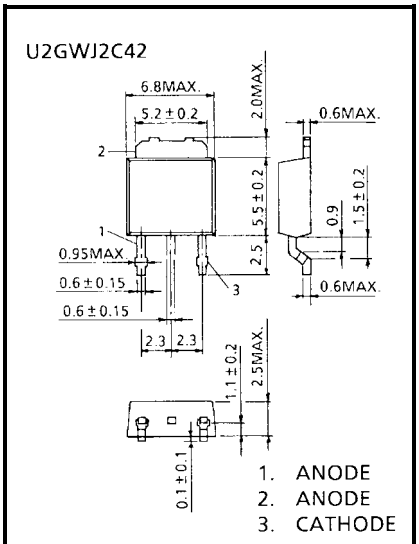
MAXIMUJM RATAINGS (Ta = 25°C)

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 Temparature	T_j	−40~125	°C
Storage Temparature Range	T_{stg}	−40~150	°C

ELECTRICALI 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 ReverseCurrent (Note 1)	I_{RRM}	V_{RRM} = 40V	—	1.0	mA
Junction Capacitance (Note 1)	C_j	V_R = 10 V, f = 1 MHz	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 (250 mm × 0.8 mm Ceramic)	—	125	°C / W

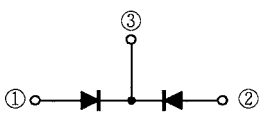
Note 1: A value of one cell.



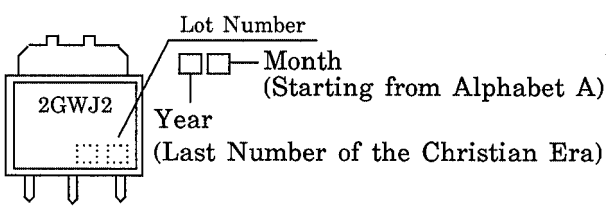
JEDEC	—
JEITA	—
TOSHIBA	12−7B2A

Weight: 0.55 g

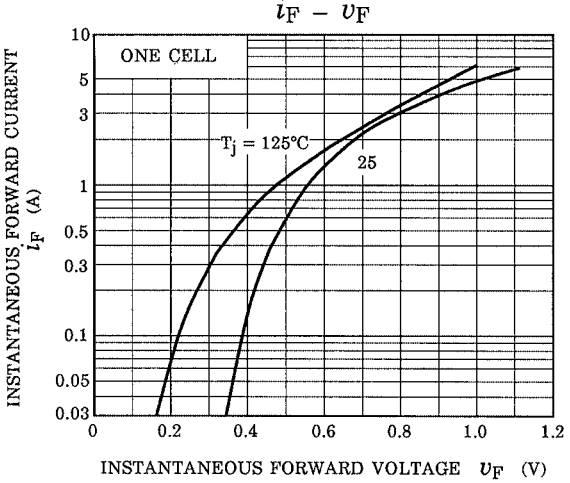
POLARITY



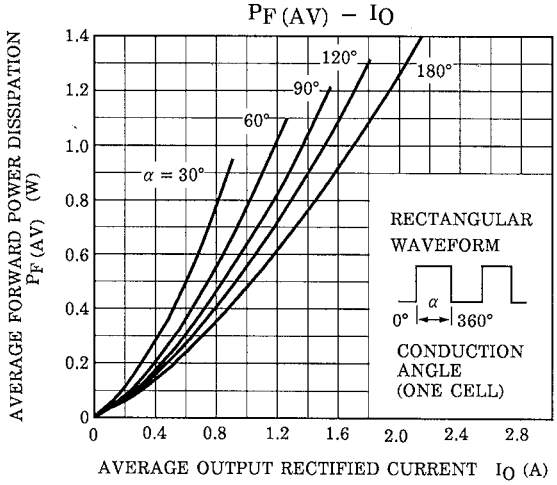
MARKING



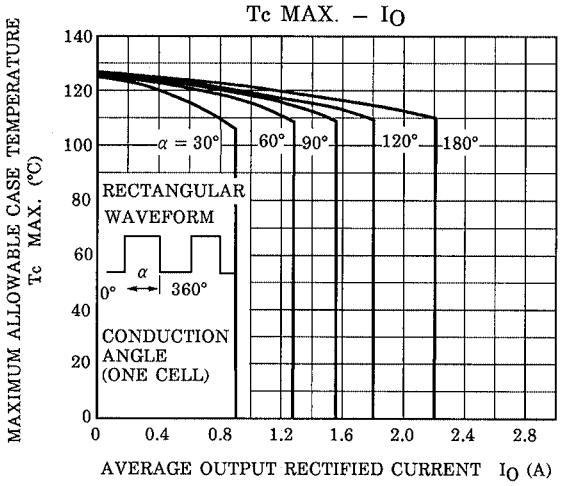
$i_F - v_F$



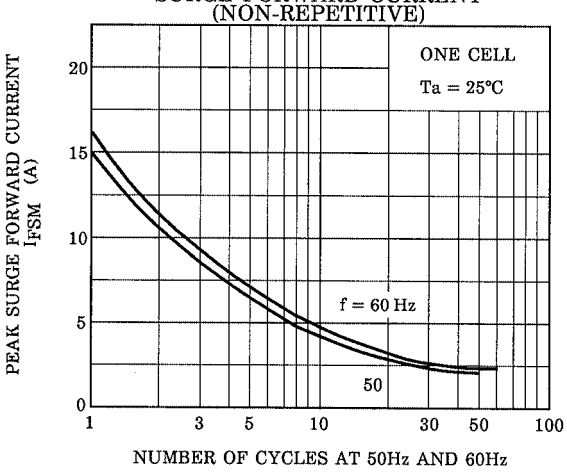
$P_{F(AV)} - I_O$



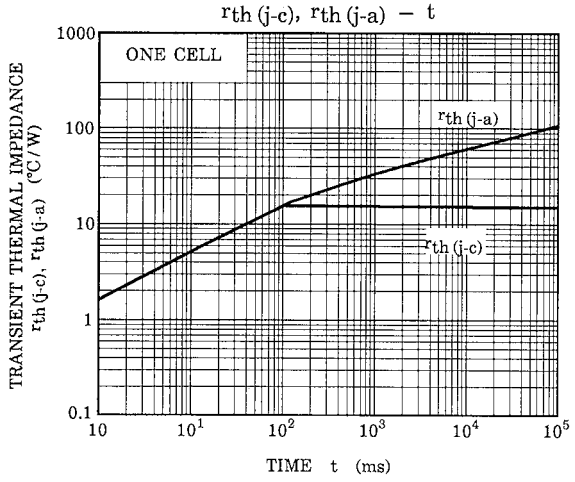
Tc MAX. – I_O



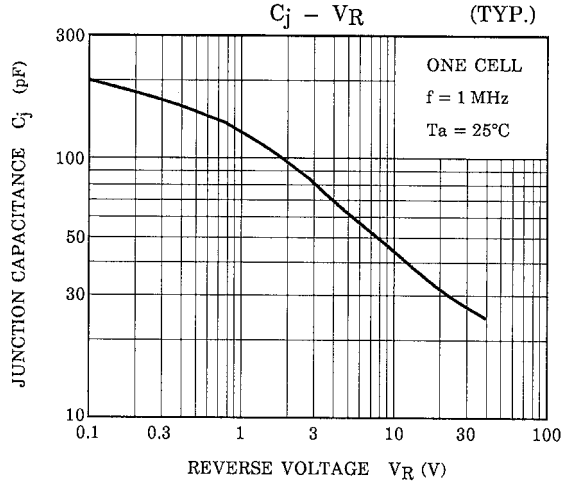
SURGE FORWARD CURRENT (NON-REPETITIVE)



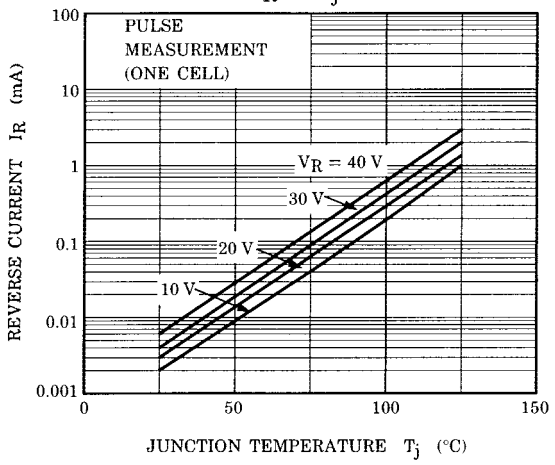
$r_{th\,(j\text{-}c)}$, $r_{th\,(j\text{-}a)}$ – t



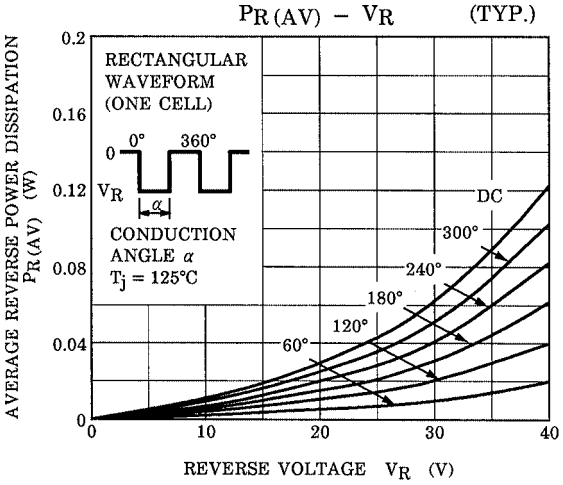
$C_j - V_R$ (TYP.)



I_R – T_j (TYP.)



$P_{R(AV)}$ – V_R (TYP.)



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