TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

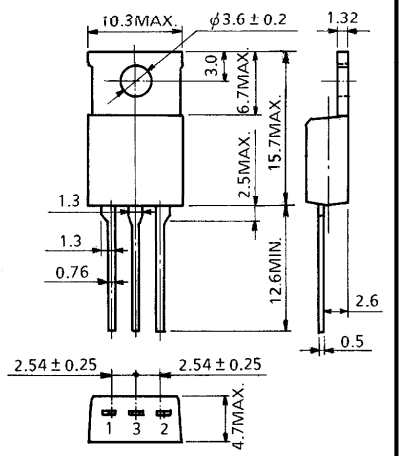
10GWJ2C42

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage : V_{RRM} = 40V
- Average Output Rectified Current : I_O = 10A
- Low Switching Losses and Output Noise

Unit in mm



1. ANODE
2. ANODE
3. CATHODE

JEDEC	TO-220AB
EIAJ	—
TOSHIBA	12-10E1A

Weight : 2.0g

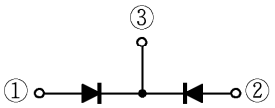
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Output Rectified Current (Tc = 107°C)	I_O	10	A
Peak One Cycle Surge Forward Current	I_{FSM}	100 (50Hz)	A
Junction Temperature	T_j	−40~125	°C
Storage Temperature Range	T_{stg}	−40~150	°C

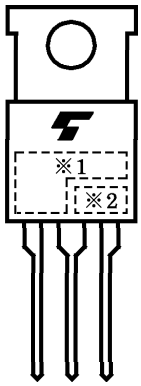
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 5.0A	—	—	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 40V	—	—	3.5	mA
Reverse Recovery Time	t_{rr}	I_{FM} = 1.0A, di / dt = −50A / μs	—	—	35	ns
Junction Capacitance	C_j	V_R = 10V, f = 1.0MHz	235	—	—	pF
Thermal Resistance	$R_{th\ (j\text{-}c)}$	DC Total, Junction to Case	—	—	2.5	°C / W

POLARITY



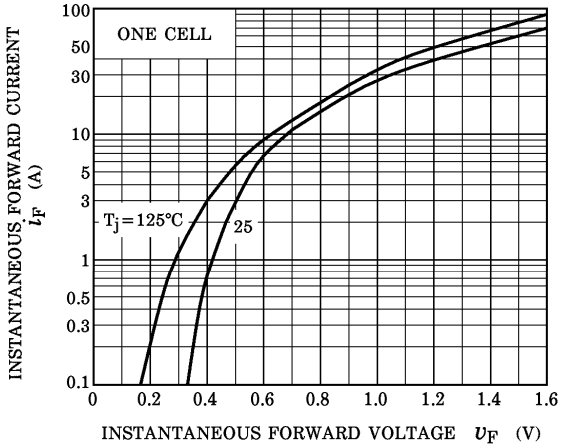
MARKING



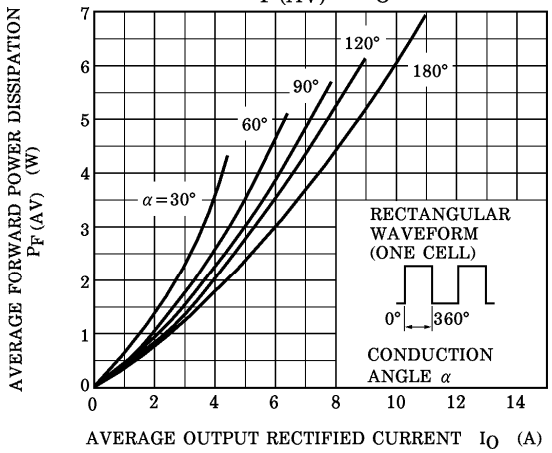
※1	MARK	10GWJ2C42
※2	Lot Number □ □ — Month (Starting from Alphabet A) └ — Year (Last Number of the Christian Era)	

961001EAA2

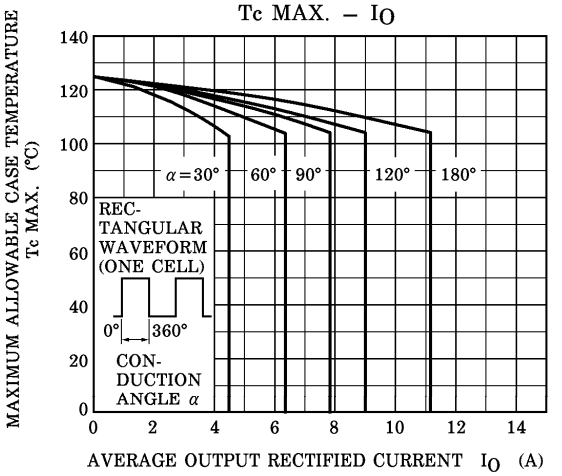
$i_F - v_F$



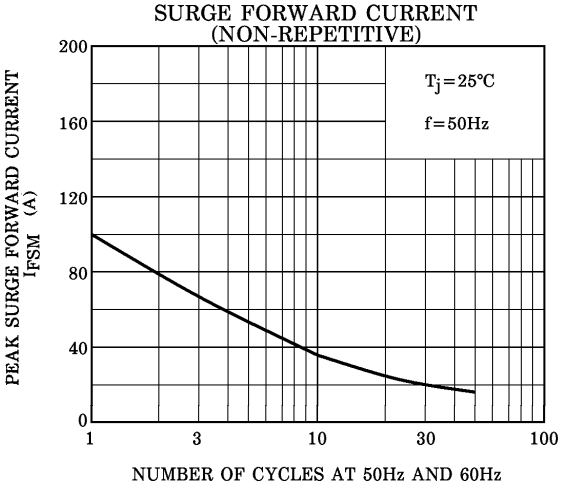
$P_{F(AV)} - I_O$



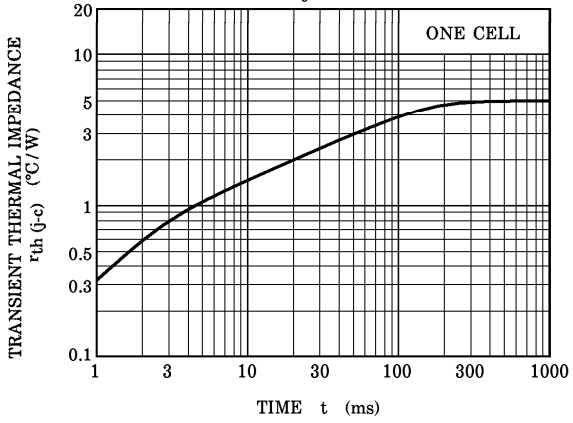
Tc MAX. – I_O



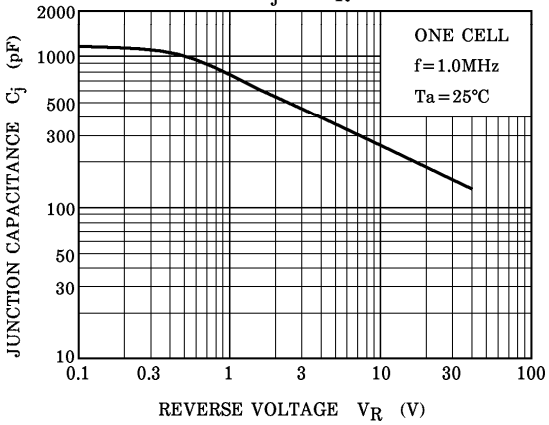
SURGE FORWARD CURRENT (NON-REPETITIVE)



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



$C_j - V_R$ (TYPICAL)



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