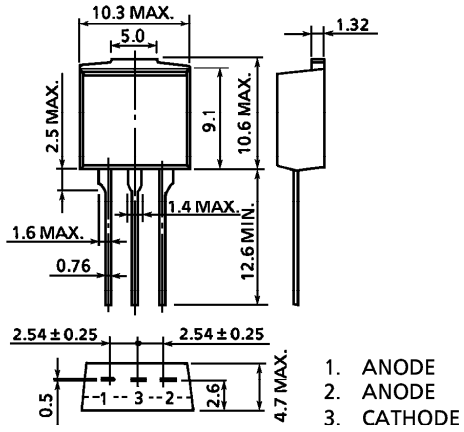
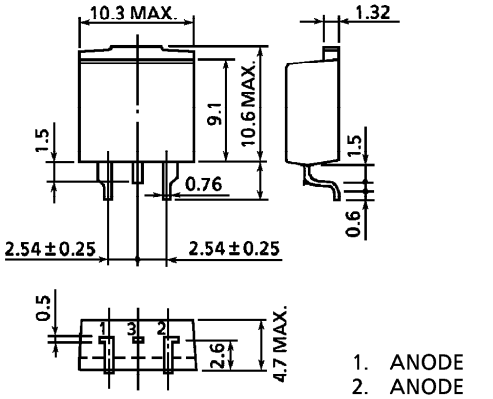
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

10GWJ2C48C, U10GWJ2C48C

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

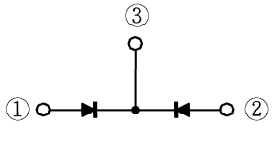
10GWJ2C48C	U10GWJ2C48C
	
JEDEC —	JEDEC —
EIAJ —	EIAJ —
TOSHIBA 12-10D1A	TOSHIBA 12-10D2A

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Repetitive Peak Reverse Surge Voltage (Note 1)	V_{RRSM}	48	V
Average Output Rectified Current	I_O	10	A
Peak One Cycle Surge Forward Current (Sine Wave)	I_{FSM}	100 (50Hz)	A
		110 (60Hz)	
Junction Temperature	T_j	−40~125	°C
Storage Temperature Range	T_{stg}	−40~150	°C

(Note 1) Pulse Width (t_w)≦500ns, duty (t_w/T)≦1/25

POLARITY



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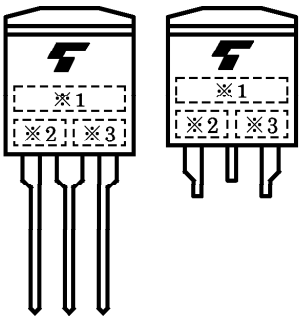
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 5A	—	—	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = Rated	—	—	3.5	mA
Junction Capacitance	C_j	V_R = 10V, f = 1.0MHz	—	195	—	pF
Thermal Resistance	$R_{th\,(j\text{-}c)}$	DC Total, Junction to Case	—	—	2.2	C°/W

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

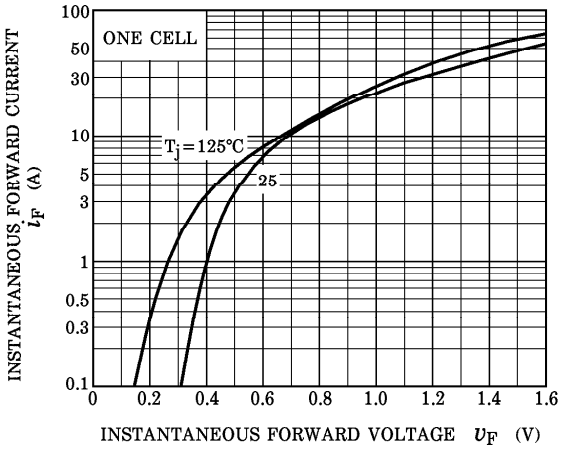
MARKING



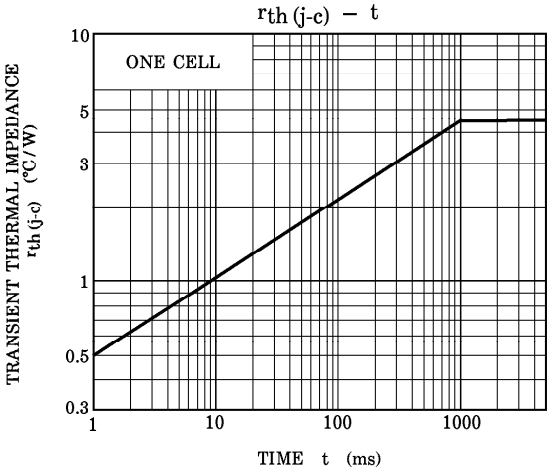
※1	MARK	10GWJ2C	TYPE	10GWJ2C48C, U10GWJ2C48C
※2	C			
※3	Lot Number □□ — Month (Starting from Alphabet A) └— Year (Last Number of the Christian Era)			

961001EAA2'

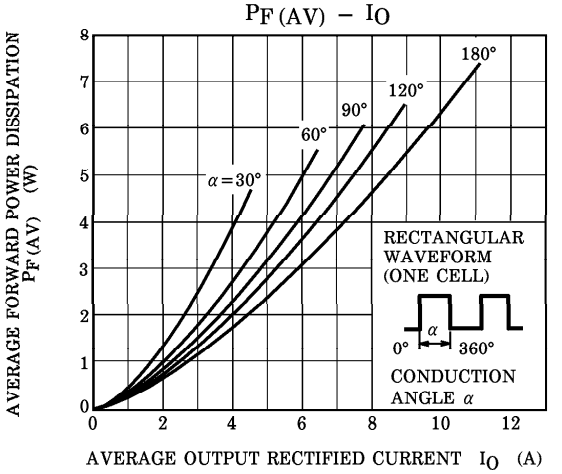
$i_F - v_F$



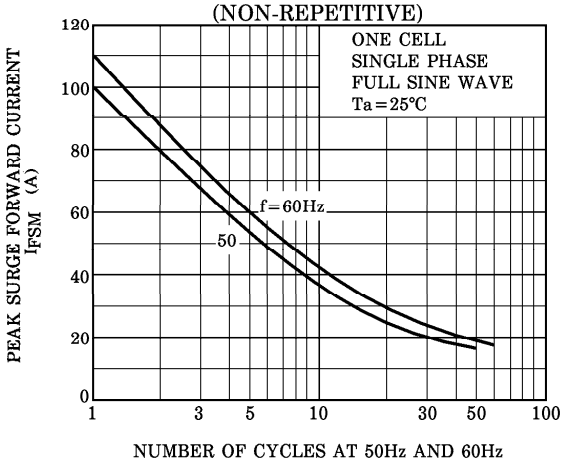
$r_{th\,(j\text{-}c)} - t$



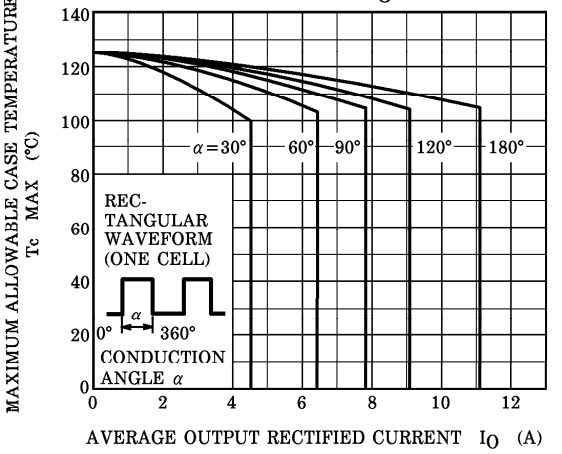
$P_{F\,(AV)} - I_O$



SURGE FORWARD CURRENT (NON-REPETITIVE)



$Tc\ MAX - I_O$



$C_j - V_R$ (TYPICAL)