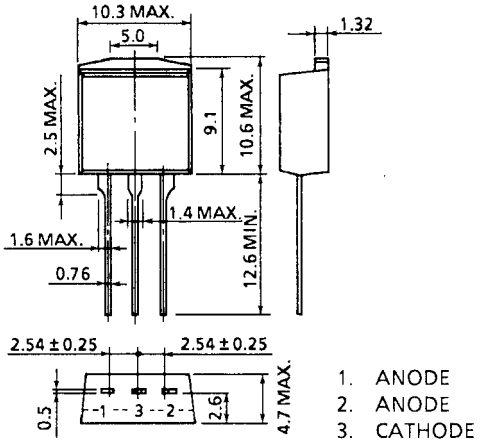
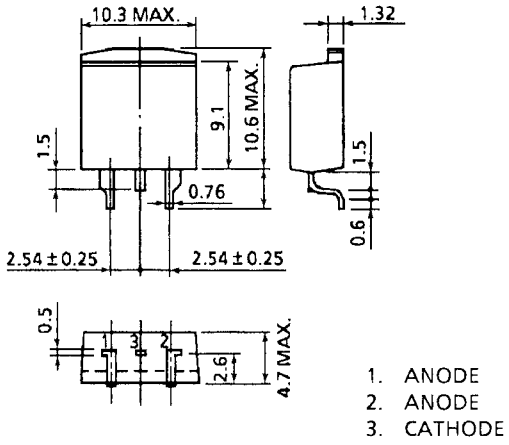
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

30FWJ2C48M,U30FWJ2C48M

LOW FORWARD VOLTAGE SCHOTTKY BARRIER DIODE
SWITCHING MODE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

- Peak Forward Voltage : $V_{FM} \leq 0.47V$
- Repetitive Peak Reverse Voltage : $V_{RRM}=30V$
- Average Output Rectified Current : $I_O=30A$
- Low Switching Losses and Output Noise.

Unit in mm

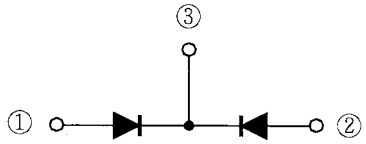
30FWJ2C48M		U30FWJ2C48M	
			
JEDEC	—	JEDEC	—
EIAJ	—	EIAJ	—
TOSHIBA	12-10D1A	TOSHIBA	12-10D2A

000707EAA1

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Output Rectified Current	I_O	30	A
Peak One Cycle Surge Forward Current (Sine Wave)	I_{FSM}	300 (50 Hz)	A
		330 (60 Hz)	
Junction Temperature	T_j	−40~125	°C
Storage Temperature Range	T_{stg}	−40~150	°C

POLARITY

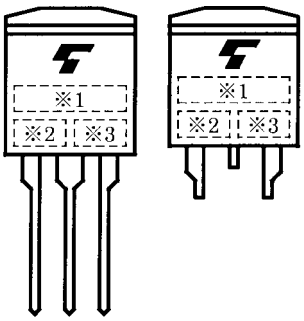


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM}=15A	—	0.47	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM}=30V	—	15	mA
Junction Capacitance	C_j	V_R=10V, f=1.0MHz	820	—	pF
Thermal Resistance	$R_{th\ (j-c)}$	DC Total, Junction to Case	—	1.2	°C / W

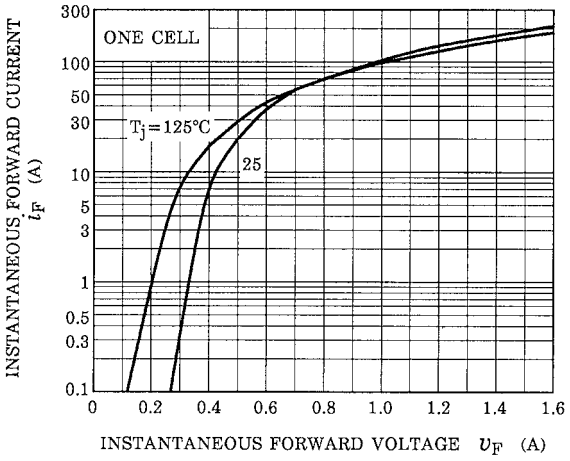
V_{FM}, I_{RRM}, C_j : A value of one cell.

MARKING

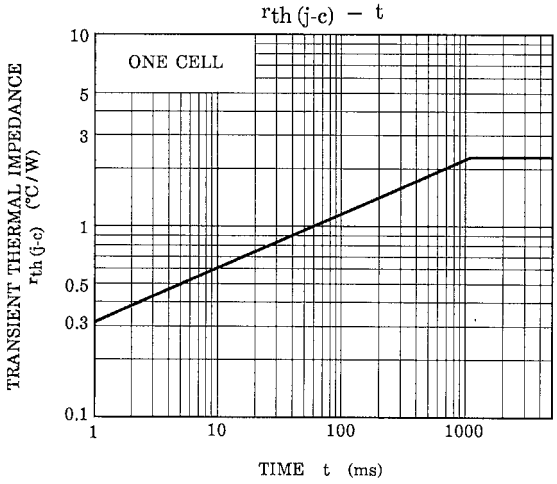


*1	MARK	30FWJ2C	TYPE	30FWJ2C48M, U30FWJ2C48M
*2	M			
*3	Lot Number □□— Month (Starting from Alphabet A) └— Year (Last Number of the Christian Era)			

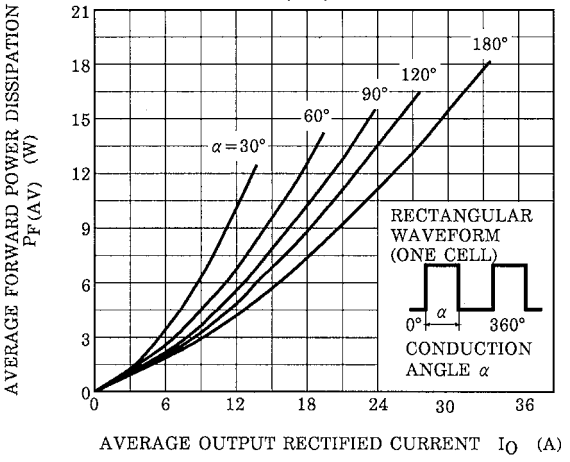
$i_F - v_F$



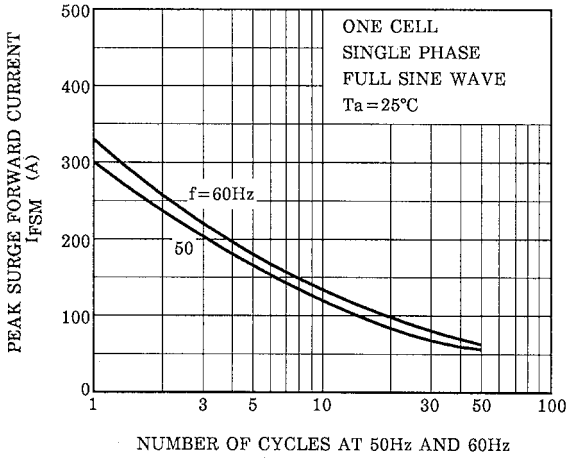
$r_{th(j-c)} - t$



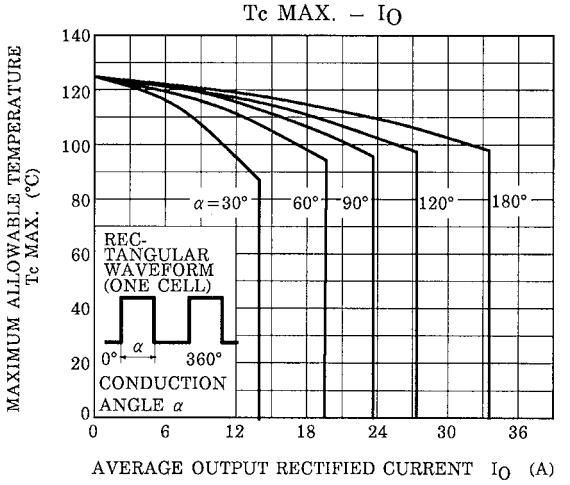
$P_{F(AV)} - I_O$



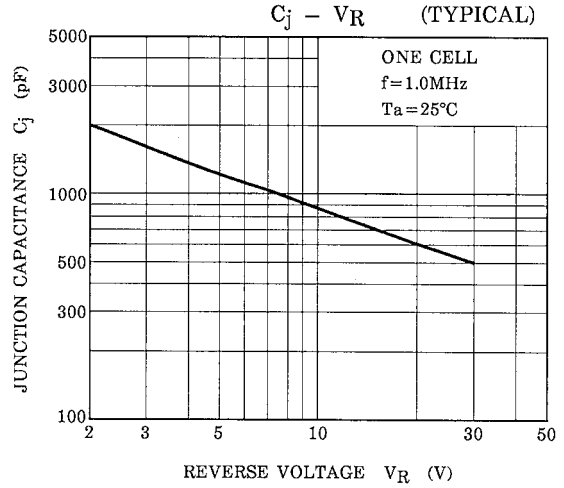
SURGE FORWARD CURRENT (NON-REPETITIVE)



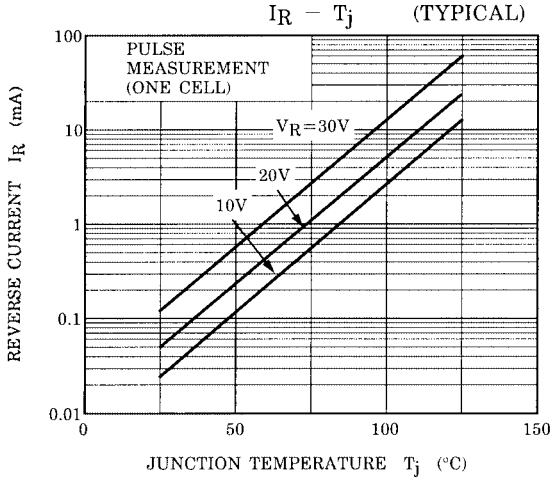
Tc MAX. – I_O



$C_j - V_R$ (TYPICAL)



I_R – T_j (TYPICAL)



$P_{R(AV)}$ – V_R (TYPICAL)