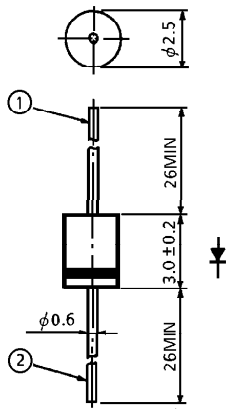
TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

1FWJ43M

HIGH SPEED RECTIFIER APPLICATIONS

Unit in mm

- Low Forward Voltage : V_{FM} = 0.45V (Max.)
- Low Reverse Current : I_{RRM} = 0.5mA (Max.)
- Average Forward Current : $I_{F(AV)}$ = 1.0A
- Repetitive Peak Reverse Voltage : V_{RRM} = 30V



1. ANODE
2. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	3-3F2A

Weight : 0.18g

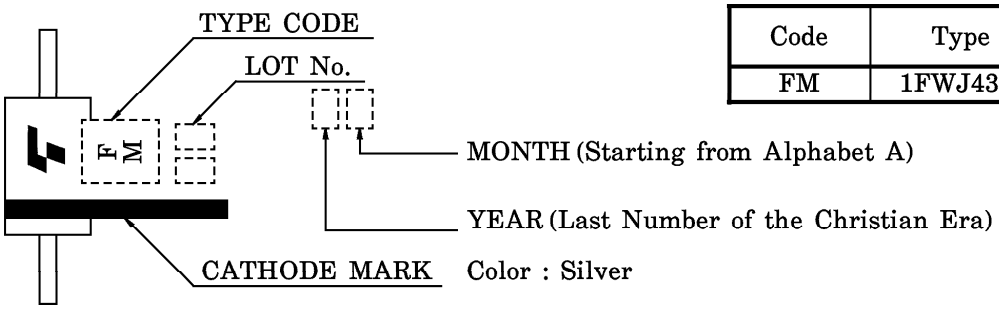
MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Forward Current	$I_{F(AV)}$	1.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	20 (50Hz)	A
Junction Temperature	T_j	−40~125	°C
Storage Temperature Range	T_{stg}	−40~125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBO	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 1.0A	—	—	0.45	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 30V	—	—	0.5	mA
Junction Capacitance	C_j	V_R = 10V, f = 1MHz	—	60	—	pF

MARKING

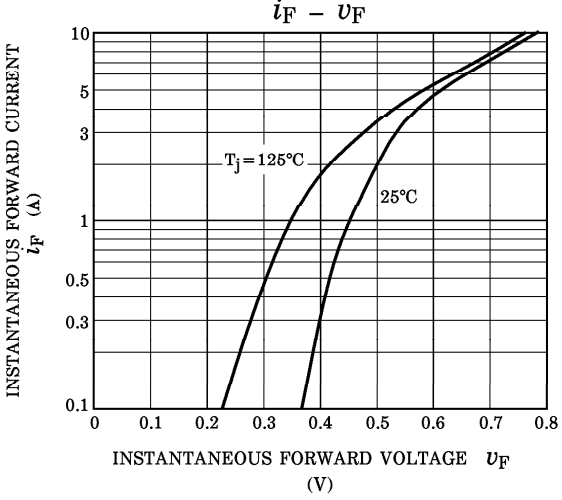


Code	Type
FM	1FWJ43M

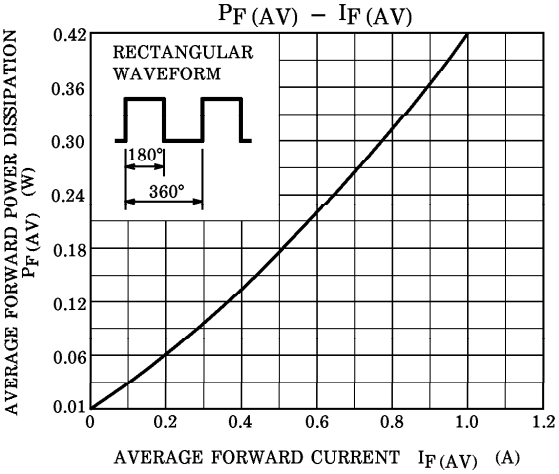
961001EAA1

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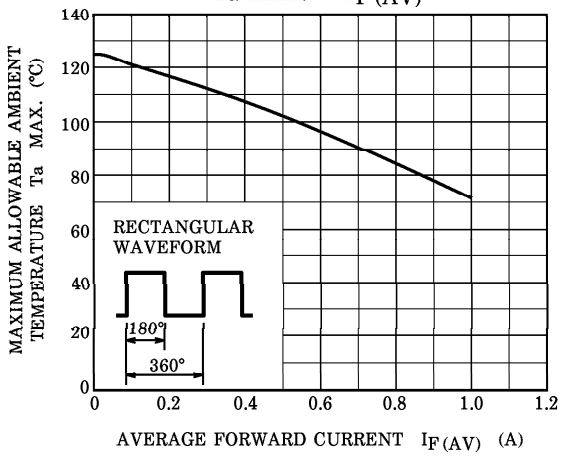
$i_F - v_F$



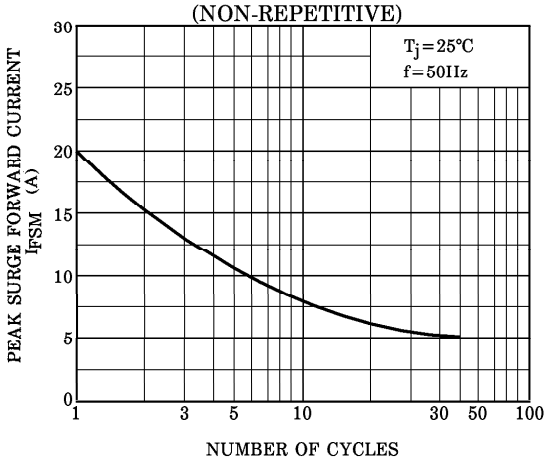
$P_{F(AV)} - I_{F(AV)}$



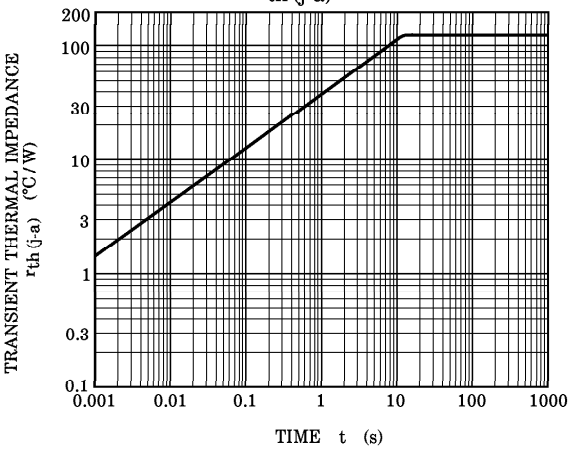
Ta MAX. – $I_{F(AV)}$



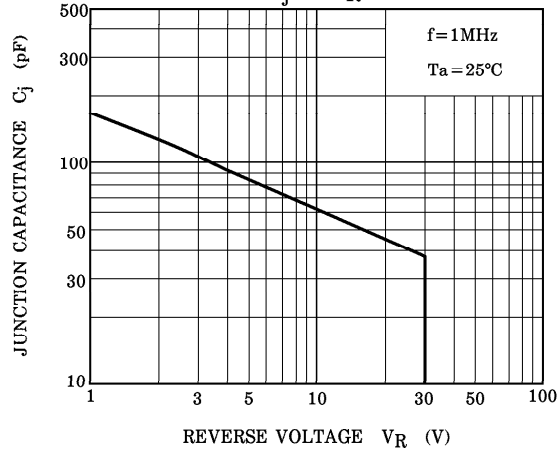
SURGE FORWARD CURRENT (NON-REPETITIVE)



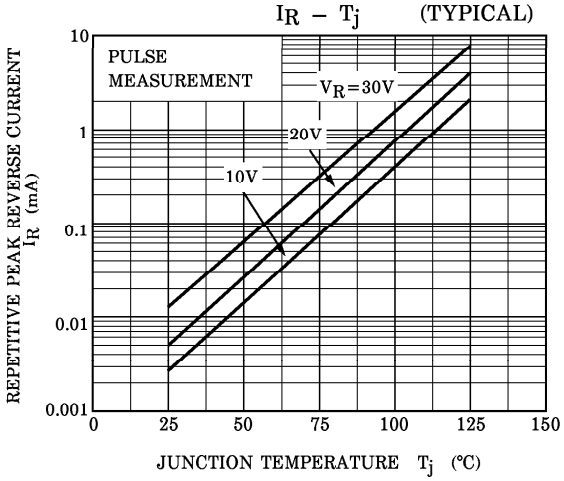
$r_{th(j-a)} - t$



$C_j - V_R$ (TYPICAL)



$I_R - T_j$ (TYPICAL)



$P_{R(AV)} - V_R$ (TYPICAL)

