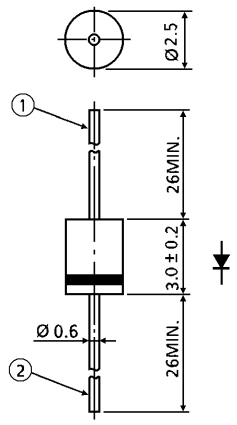
TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

TVR5B, TVR5G, TVR5J

TV APPLICATIONS (FAST RECOVERY)

Unit in mm

- Average Forward Current : $I_{F(AV)}$ = 0.5 A
- Repetitive Peak Reverse Voltage : V_{RRM} = 100~600 V
- Reverse Recovery Time : t_{rr} = 1.5 μs



1. ANODE
2. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	3-3F2A

Weight : 0.18 g

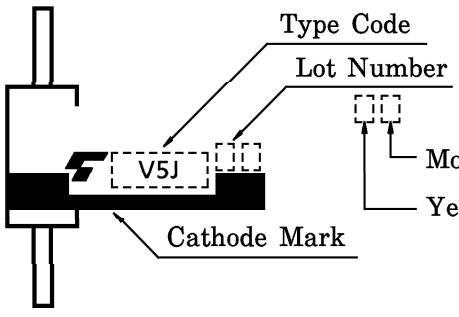
MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	TVR5B	V_{RRM}	100	V
	TVR5G		400	
	TVR5J		600	
Average Forward Current		$I_{F(AV)}$	0.5	A
Peak One Cycle Surge Forward Current (Non Repetitive)		I_{FSM}	20	A
Junction Temperature		T_j	−40~125	°C
Storage Temperature Range		T_{stg}	−40~125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 0.5 A	—	—	1.2	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = Rated	—	—	10	μA
Reverse Recovery Time	t_{rr} (1)	I_F = 20 mA, I_R = 1 mA	—	—	1.5	μs
	t_{rr} (2)	I_F = 100 mA, I_R = 100 mA	—	—	500	μs

MARKING



Color : Silver

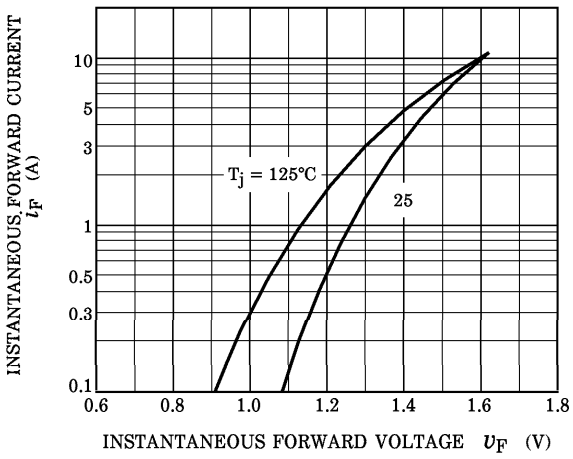
Month (Starting from Alphabet A)

Year (Last Number of the Christian Era)

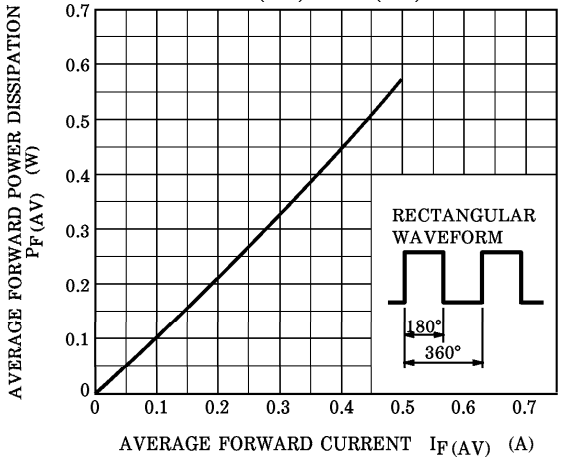
CODE	TYPE
V5B	TVR5B
V5G	TVR5G
V5J	TVR5J

961001EAA2

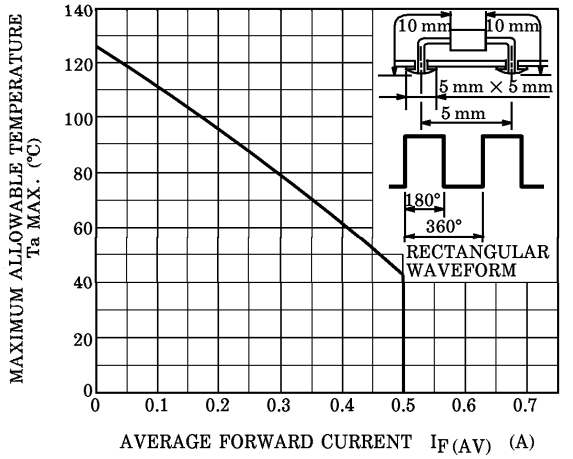
$i_F - v_F$



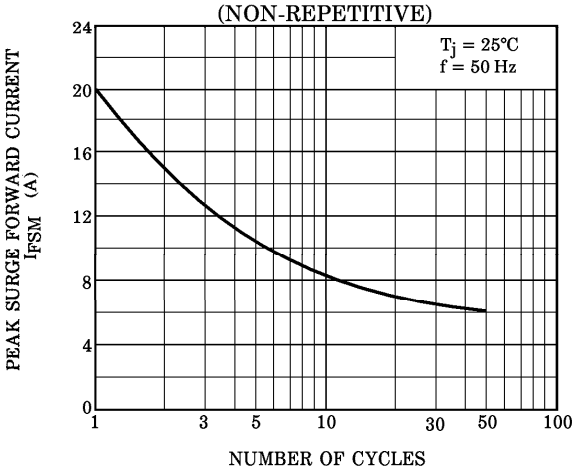
$P_{F(AV)} - I_{F(AV)}$



$Ta\ MAX. - I_{F(AV)}$



SURGE FORWARD CURRENT (NON-REPETITIVE)



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