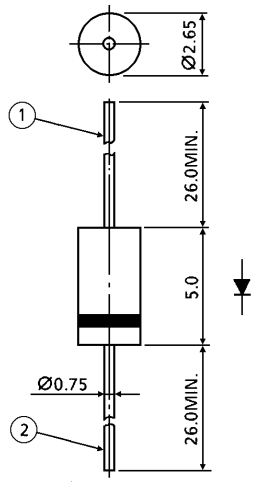
TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

TVR2B, TVR2G, TVR2J

TV APPLICATIONS (FAST RECOVERY)

Unit in mm

- Average Forward Current : $I_{F(AV)}$ = 0.5 A (Ta = 50°C)
- Repetitive Peak Reverse Voltage : V_{RRM} = 100 V~600 V
- Reverse Recovery Time : t_{rr} = 5~20 μs



1. ANODE
2. CATHODE

JEDEC	DO-41
EIAJ	—
TOSHIBA	3-3C1A

Weight : 0.3 g

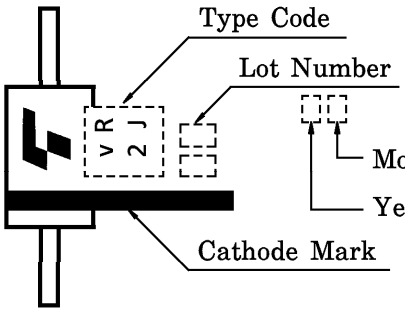
MAXIMUM RATING

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	TVR2B	V_{RRM}	100	V
	TVR2G		400	
	TVR2J		600	
Reverse Voltage (DC)	TVR2B	V_R	50	V
	TVR2G		300	
	TVR2J		500	
Average Forward Current (Ta = 50°C)		$I_{F(AV)}$	0.5	A
Peak One Cycle Surge Forward Current (Non Repetitive)		I_{FSM}	30 (50 Hz)	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.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 1.0 A	—	1.4	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = Rated	—	10	μA
Reverse Recovery Time	t_{rr}	I_F = 20 mA, I_R = 1 mA	5	20	μs
Forward Recovery Voltage	V_{fr}	I_F = 0.1 A, t_r = 100 ns, t_w = 5 μs	—	6	V

MARKING



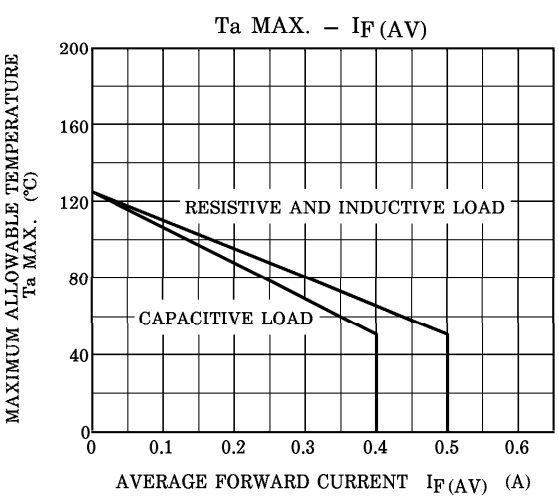
Color : Silver

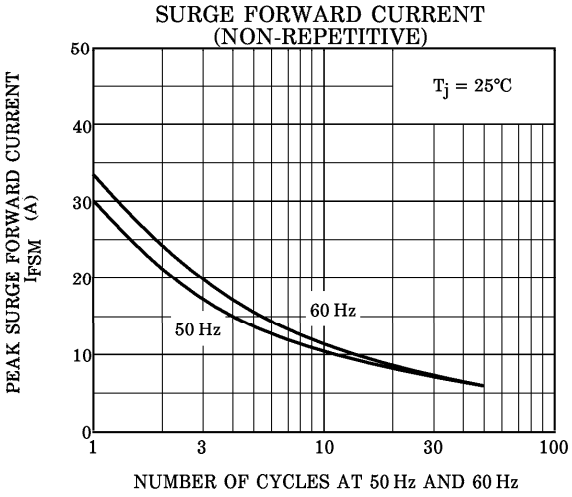
Month (Starting from Alphabet A)

Year (Last Number of the Christian Era)

CODE	TYPE
VR2B	TVR2B
VR2G	TVR2G
VR2J	TVR2J

961001EAA2


Ta MAX. – IF (AV)
MAXIMUM ALLOWABLE TEMPERATURE Ta MAX. (°C)
200
160
120
80
40
0
RESISTIVE AND INDUCTIVE LOAD
CAPACITIVE LOAD
0
0.1
0.2
0.3
0.4
0.5
0.6
AVERAGE FORWARD CURRENT IF (AV) (A)


SURGE FORWARD CURRENT
(NON-REPETITIVE)
PEAK SURGE FORWARD CURRENT IFSM (A)
50
40
30
20
10
0
Tj = 25°C
60 Hz
50 Hz
1
3
10
30
100
NUMBER OF CYCLES AT 50 Hz AND 60 Hz