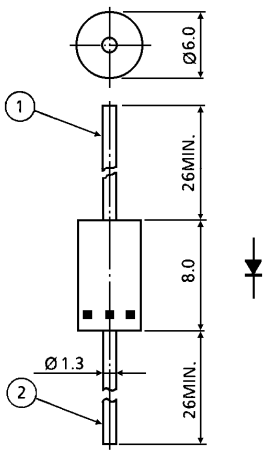
TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

3BZ41, 3GZ41, 3JZ41, 3NZ41

GENERAL PURPOSE RECTIFIER APPLICATIONS

Unit in mm

- Average Forward Current : $I_{F(AV)}$ = 3.0 A
- Repetitive Peak Reverse Voltage : V_{RRM} = 100~1000 V
- Peak One Cycle Surge Forward Current (Non Repetitive) : I_{FSM} = 180 A (50 Hz)



1. ANODE
2. CATHODE

JEDEC	DO-201AD
EIAJ	—
TOSHIBA	3-6E1A

Weight : 1.18 g

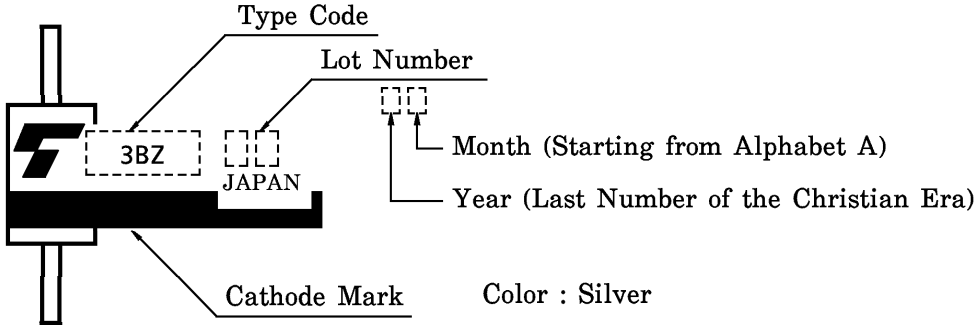
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	3BZ41	V_{RRM}	100	V
	3GZ41		400	
	3JZ41		600	
	3NZ41		1000	
Average Forward Current (Ta = 45°C)		$I_{F(AV)}$	3.0	A
Peak One Cycle Surge Forward Current (Non Repetitive)		I_{FSM}	180 (50 Hz)	A
			200 (60 Hz)	
Junction Temperature		T_j	−40~150	°C
Storage Temperature Range		T_{stg}	−40~150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 3.0 A	—	—	1.0	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = Rated	—	—	30	μA
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	DC	—	—	37	°C / W

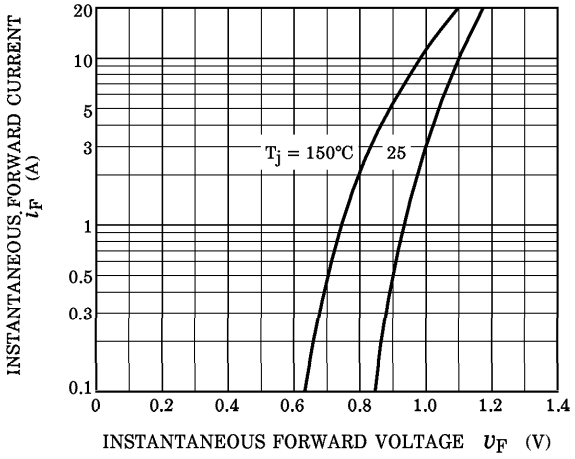
MARKING



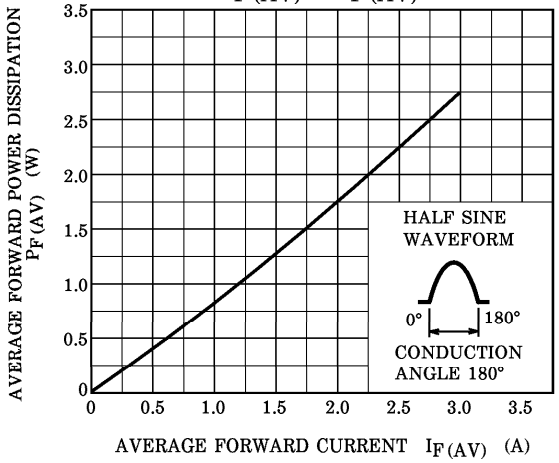
CODE	TYPE
3BZ	3BZ41
3GZ	3GZ41
3JZ	3JZ41
3NZ	3NZ41

961001EAA2

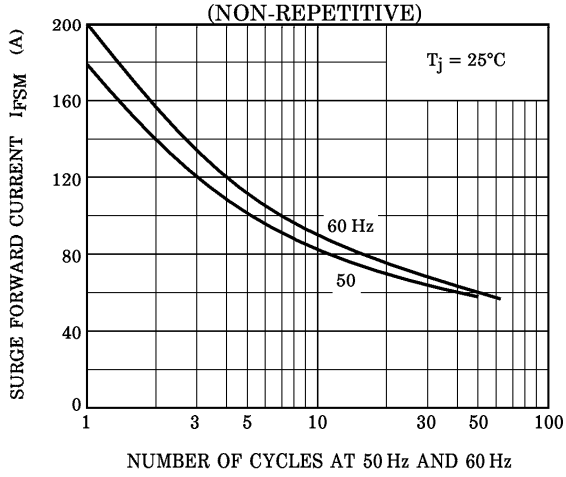
$i_F - v_F$



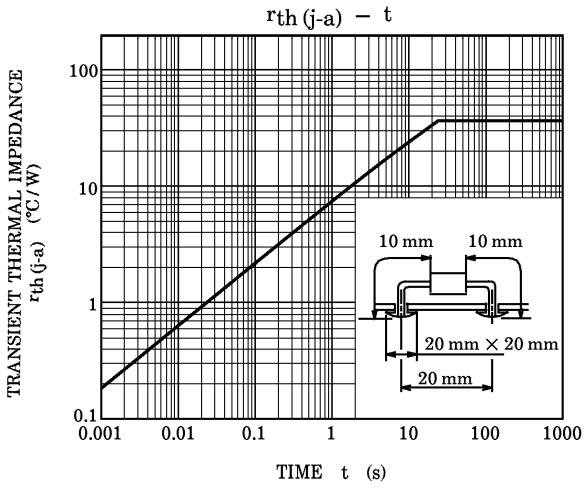
$P_{F(AV)} - I_{F(AV)}$



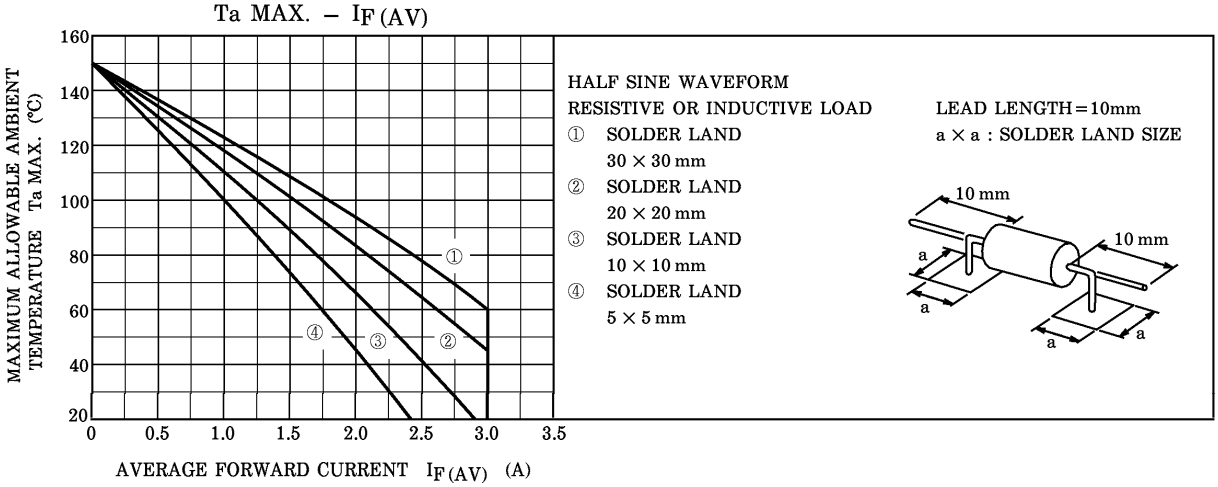
SURGE FORWARD CURRENT (NON-REPETITIVE)



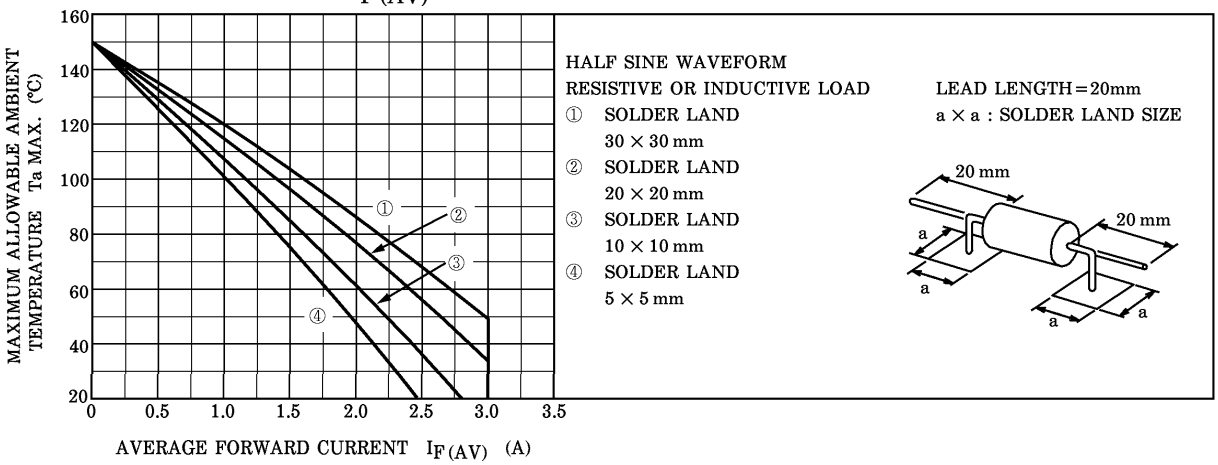
$r_{th(j-a)} - t$



Ta MAX. – $I_{F(AV)}$



Ta MAX. – $I_{F(AV)}$



Ta MAX. – $I_{F(AV)}$