

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

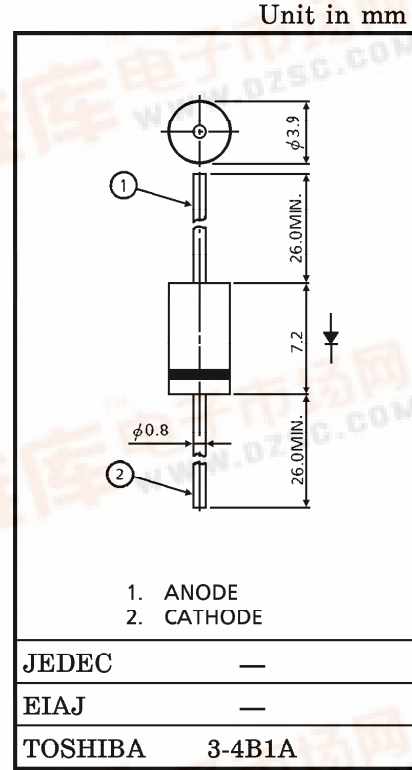
1R5NH45

SWITCHING TYPE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM}=1000V$
- Average Forward Current : $I_F(AV)=1.5A$
- Very Fast Reverse-Recovery Time : $t_{rr}=200ns$ (Max.)

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Average Forward Current ($T_a=25^{\circ}C$)	$I_F(AV)$	1.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	30 (50Hz)	A
		33 (60Hz)	
Junction Temperature Range	T_j	-40~150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-40~150	$^{\circ}C$



ELECTRICAL CHARACTERISTICS ($T_a = 25^{\circ}C$)

Weight : 0.47g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.5A$	—	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=1000V$	—	—	100	μA
Reverse Recovery Time	t_{rr}	$I_F=1A, di/dt = -30A/\mu s$	—	—	200	ns
Forward Recovery Time	t_{fr}	$I_F=1.0A$	—	—	750	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	58	$^{\circ}C/W$

Marking

