Unit in mm

TOSHIBA SUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

NU41

SWITCHING TYPE POWER SUPPLY APPLICATIONS

 $: V_{RRM} = 1000V$ Repetitive Peak Reverse Voltage

Average Forward Current $: I_{F(AV)} = 1.0A$

Very Fast Reverse-Recovery Time $: t_{rr} = 100 ns$

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	v_{RRM}	1000	V	
Average Forward Current	I _{F (AV)}	1.0	Α	
Peak One Cycle Surge Forward	T	10 (50Hz)	A	
Current (Non-Repetitive)	IFSM	11 (60Hz)		
Junction Temperature	T_{j}	-40~150	$^{\circ}\mathrm{C}$	
Storage Temperature Range	${ m T_{stg}}$	-40~150	$^{\circ}\mathrm{C}$	

Ø 0.8 1. ANODE 2. CATHODE **JEDEC** DO-15 EIAJ SC-39

3-3B1A

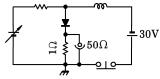
Weight: 0.42g

TOSHIBA

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$ m v_{FM}$	$I_{\text{FM}} = 1.0 A$	_	_	3.3	V
Repetitive Peak Reverse Current	$I_{ m RRM}$	$ m V_{RRM}\!=\!Rated$	_		100	μ A
Reverse Recovery Time (Note 1)	t_{rr}	$I_F=1A$, $di/dt=-30A/\mu s$	_	_	100	ns
Forward Recovery Time (Note 2)	t_{fr}	$I_{ m F}$ = 1.0A	_	300		ns
Thermal Resistance (Note 3)	$R_{ ext{th (j-a)}}$	Junction to Ambient	_	_	60	°C/W
Thermal Resistance (Note 3)	$\mathrm{R}_{\mathrm{th}\;(\mathrm{j-}\ell)}$	Junction to Lead	_	_	34	°C/W

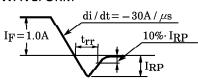
Note 1: t_{rr} TEST CIRCUIT



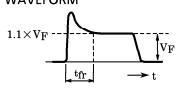
OUTPUT

Note 2: tfr TEST CIRCUIT

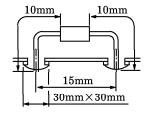
WAVEFORM



WAVEFORM

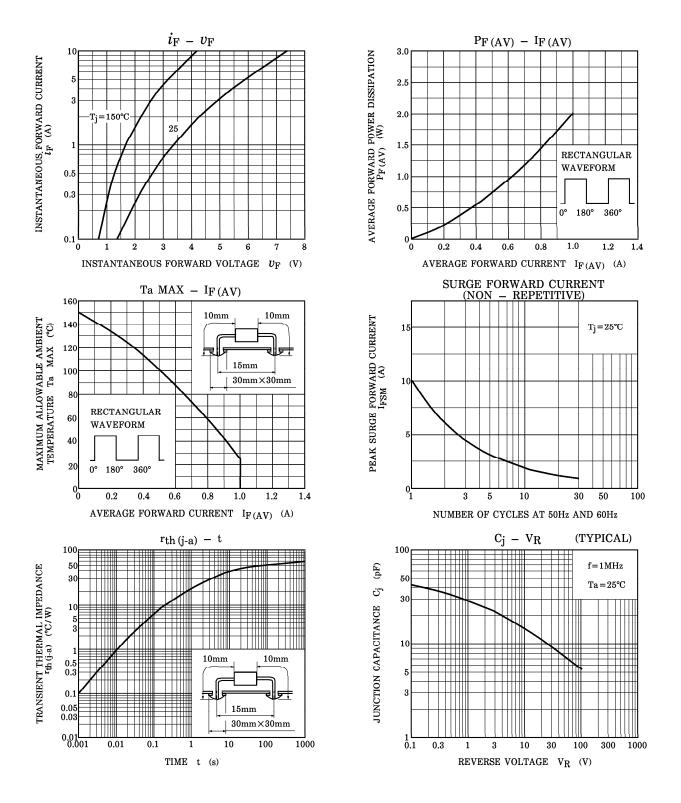


Note 3: THERMAL RESISTANCE



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