TOSHIBA

TOSHIBA DUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

1R5GU41

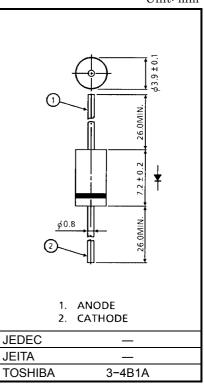
SWITCHING MODE POWER SUPPLY APPLICATIONS

Unit: mm

- Repetitive Peak Reverse Voltage : V_{RRM} = 400V
 - Average Forward Current $: I_{F}(AV) = 1.5A (Ta = 25^{\circ}C)$
 - Very Fast Reverse-Recovery Time $: t_{rr} = 100$ ns

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	400	V	
Average Forward Current	I _{F (AV)}	1.5	А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	IFSM	60 (50Hz)	A	
		66 (60Hz)		
Junction Temperature	Tj	T _j −40~150		
Storage Temperature Range	T _{stg}	-40~150	°C	

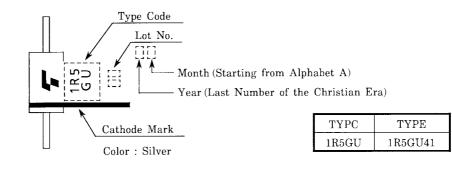


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

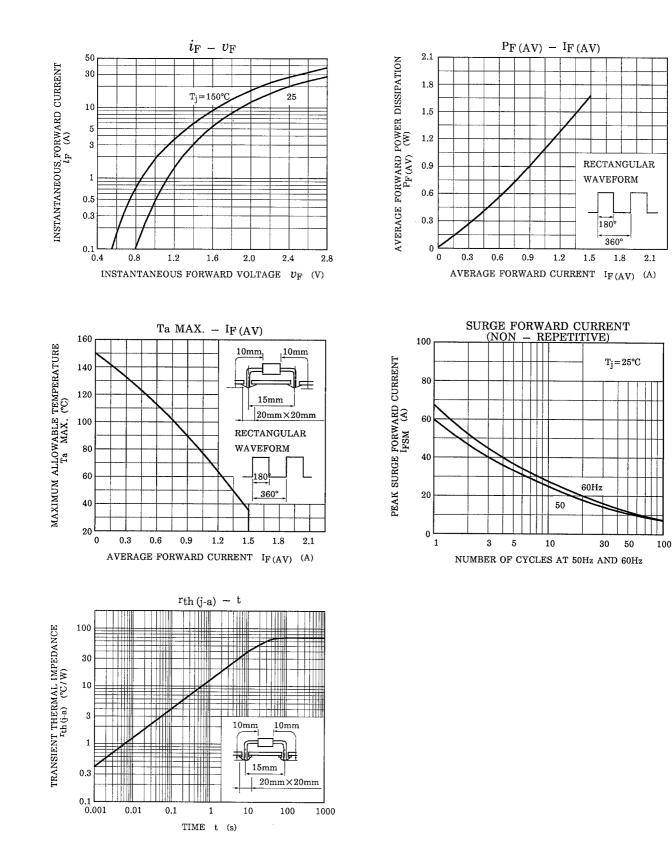
Weight: 0.47g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 1.5A	_	_	1.2	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 400V	_	_	50	μA
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = -30A / μs	_	—	100	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	—	—	200	ns
Thermal Resistance	R _{th (j−a)}	Junction to Ambient	—	—	68	°C/W
Thermal Resistance	R _{th (j−ℓ)}	Junction to Lead	_	_	30	°C/W

MARKING



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