# **TOSHIBA**

#### TOSHIBA DUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 1R5GU41

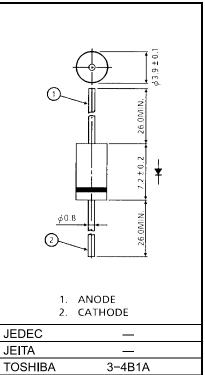
### SWITCHING MODE POWER SUPPLY APPLICATIONS

Unit: mm

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

#### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	400	V	
Average Forward Current	I <sub>F (AV)</sub>	1.5	А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	IFSM	60 (50Hz)	A	
		66 (60Hz)		
Junction Temperature	Тј	-40~150	°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	

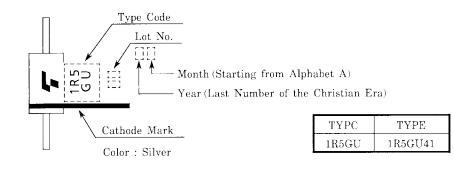


## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

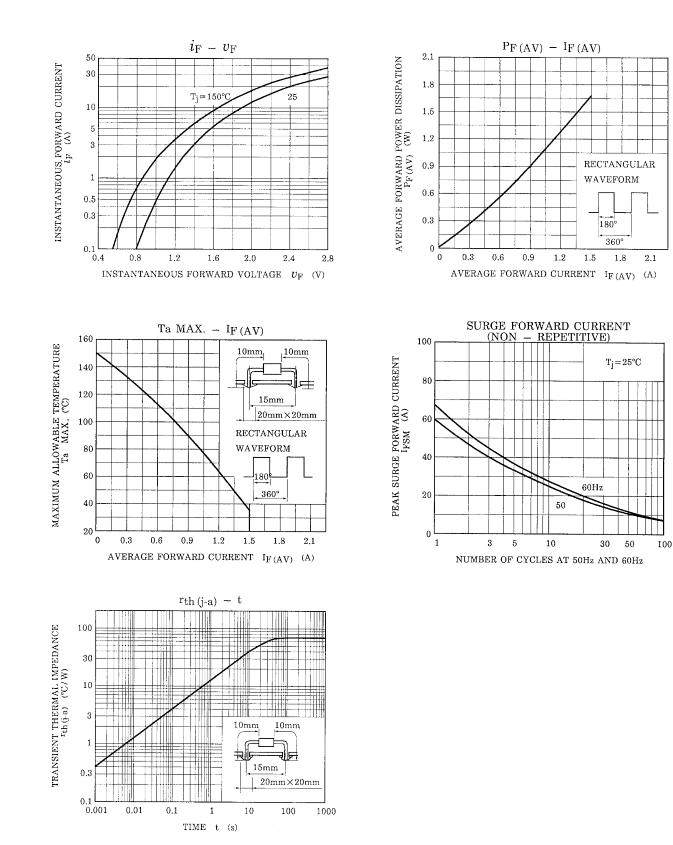
Weight: 0.47g

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

#### MARKING



## TOSHIBA



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Handbook" etc..

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