TOSHIBA DUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

1R5GU41

SWITCHING MODE POWER SUPPLY APPLICATIONS

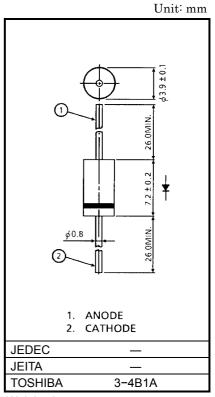
• Repetitive Peak Reverse Voltage : V_{RRM} = 400V

• Average Forward Current $: I_F(AV) = 1.5A (Ta = 25^{\circ}C)$

• Very Fast Reverse-Recovery Time : trr = 100ns

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	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	60 (50Hz)	Α	
		66 (60Hz)		
Junction Temperature	Tj	-40~150	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	

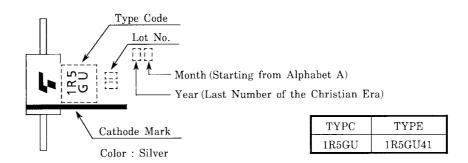


Weight: 0.47g

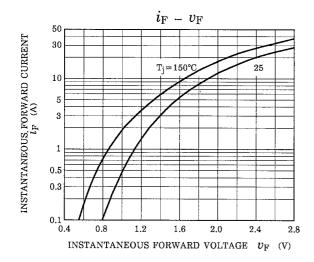
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

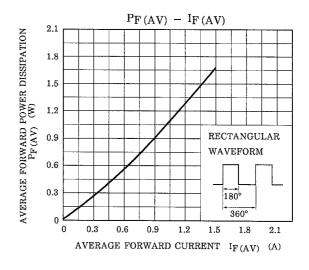
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} = 1.5A	_	_	1.2	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 400V	_	_	50	μA
Reverse Recovery Time	t _{rr}	$I_F = 1A$, di / dt = $-30A$ / μ s	_	_	100	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	_	200	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

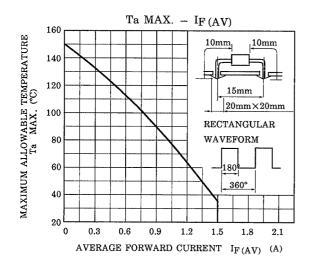
MARKING

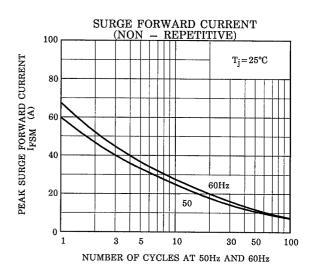


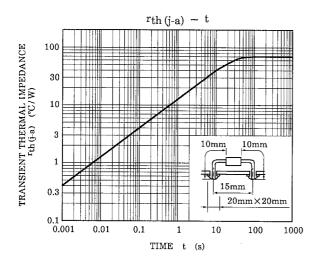
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