TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

1 R 5 G H 4 5

SWITCHING TYPE POWER SUPPLY APPLICATIONS

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

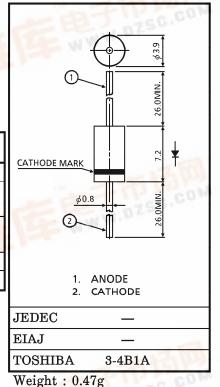
• Average Forward Current : IF (AV)=1.5A

• Very Fast Reverse-Recovery Time: t_{rr}=200ns (Max.)

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	v_{RRM}	400	V	
Average Forward Current (Ta=25°C)	I _{F (AV)}	1.5	A	
Peak One Cycle Surge Forward	Traces	50 (50Hz)	^	
Current (Non-Repetitive)	I_{FSM}	55 (60Hz)	Α	
Junction Temperature Range	T_{j}	-40 ~15 0	°C	
Storage Temperature Range	$T_{ m stg}$	-40~150	°C	
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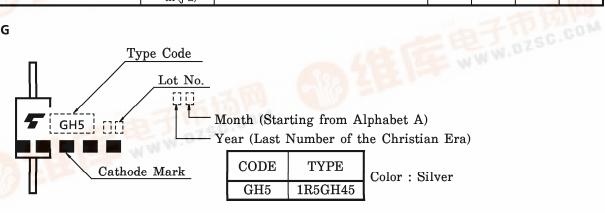
Unit in mm



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{\mathbf{FM}}$	I _{FM} =1.5A	_	_	1.1	V
Repetitive Peak Reverse Current	IRRM	$V_{RRM} = 400V$		_	100	μ A
Reverse Recovery Time	trr	$I_F=1A$, di/dt=-30A/ μ s	_	_	200	ns
Forward Recovery Time	$\mathfrak{t}_{\mathrm{fr}}$	$I_{\mathbf{F}} = 1.0 A$	_	_	400	ns
Thermal Resistance	R _{th (j-a)}	Junction to Ambient	_	_	58	°C/W

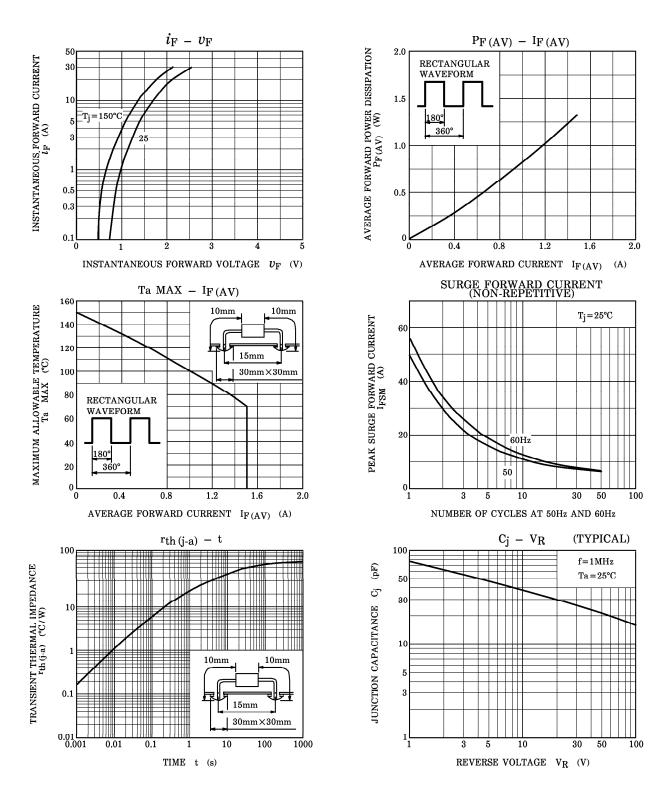
MARKING



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