TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

U1GWJ49

HIGH SPEED RECTIFIER APPLICATIONS

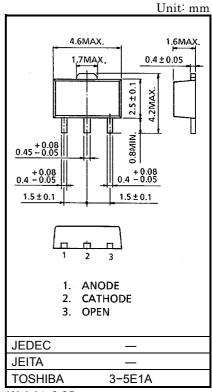
• Average Forward Current : $I_F (AV) = 1.0A$

TOSHIBA

• Low Forward Voltage $: V_{FM} = 0.55V (Max)$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	40	V	
Average Forward Current	I _{F (AV)}	1.0	А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	15 (50 Hz)	А	
		16.5 (60 Hz)		
Junction Temparature	Тј	T _j -40~125		
Storage Temparature Range	T _{stg}	-40~125	°C	

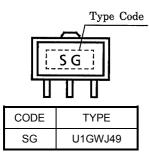


Weight: 0.05g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 1.0A	_	_	0.55	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 40V	_	_	0.5	mA
Junction Capacitance	Cj	V _R = 10V, f = 1MHz	_	50	_	pF
Thermal Resistance	R _{th (j−a)}	Junction to Ambient	_	_	125	°C/W

MARKING



TOSHIBA

RECTANGULAR

180° 360°

1.2

(TYPICAL)

1.4

0°

0.8

1.0

0.2

25

0.4

0.6

 $I_R - T_j$

'R

75

JUNCTION TEMPERATURE T_j (°C)

100

125

150

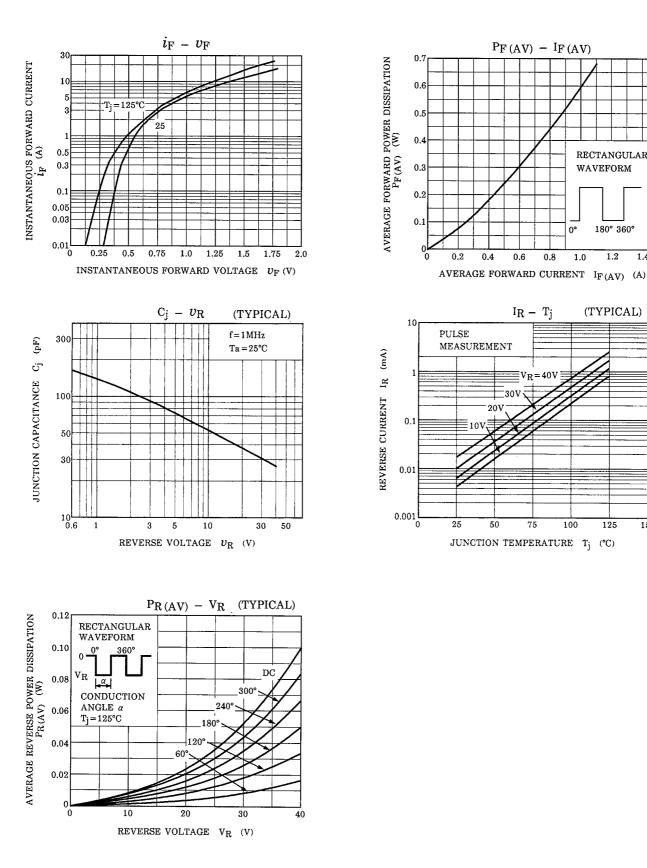
301

20

50

WAVEFORM

 $P_{F}(AV) - I_{F}(AV)$



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