

1A, 50V - 1000V Glass Passivated Rectifiers

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- 3mm miniature body
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition







MECHANICAL DATA

Case: TS-1

Molding compound, UL flammability classification rating 94V-0

Part No. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Weight:** 0.2g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	1T1G	1T2G	1T3G	1T4G	1T5G	1T6G	1T7G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	1					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					Α		
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1	.1	1.0				V	
Maximum reverse current @ rated VR T_J =25 °C T_J =125 °C	I _R		5 100					μΑ	
Typical junction capacitance (Note 2)	C _J	10					pF		
Typical thermal resistance	$R_{\theta JA}$	100			°C/W				
Operating junction temperature range	TJ	- 55 to +150				°C			
Storage temperature range	T _{STG}	- 55 to +150				°C			

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Measured at 1.0 MHz and Applied V_R =4.0 Volts



ORDERING INFORMATION							
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING		
	SUFFIX	CODE	SUFFIX				
	Н	A0		TS-1	3,000 / Ammo box (52mm taping)		
1TxG (Note 1)		A1	G	TS-1	3,000 / Ammo box (26mm taping)		
		R0	G	TS-1	5,000 / 13" Paper reel		
		В0		TS-1	1,000 / Bulk packing		

Note 1: "x" defines voltage from 50V (1T1G) to 1000V (1T7G)

EXAMPLE							
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
1T7GHA0G	1T7G	Н	A0	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

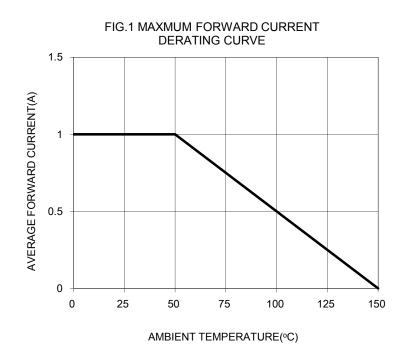


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

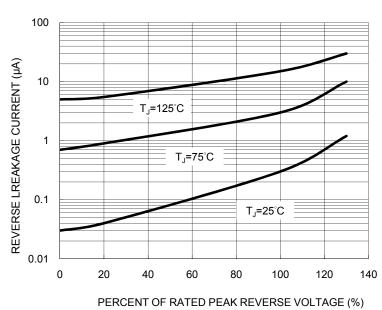
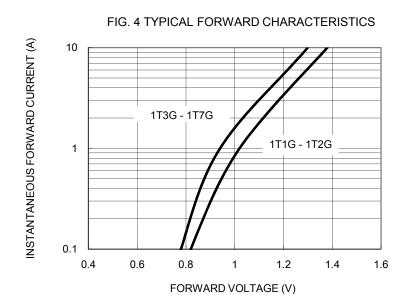
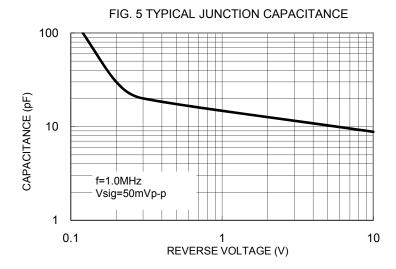


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT 50 PEAK FORWARD SURGE CURRENT(A) 8.3ms Single Half Wave 40 30 20 10 0 10 100 NUMBER OF CYCLES AT 60 Hz



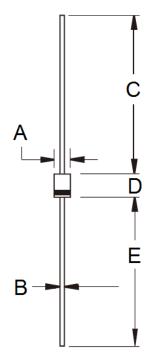
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PACKAGE OUTLINE DIMENSIONS

TS-1



DIM.	Unit	(mm)	Unit (inch)			
	Min	Max	Min	Max		
Α	2.00	2.70	0.079	0.106		
В	0.53	0.64	0.021	0.025		
С	25.40	-	1.000	-		
D	3.00	3.30	0.118	0.130		
E	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YW = Date Code
F = Factory Code

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