



1A, 50V - 1000V Glass Passivated High Efficient Rectifiers

FEATURES

- Glass passivated chip junction
- High current capability
- High reliability

Case: TS-1

- High surge current capability
- High efficiency, Low VF
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



Molding compound, UL flammability classification rating 94V-0

Paer 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)



TS-1





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	HT	HT	HT	HT	HT	HT	HT	HT	UNIT
FARAIVILTER	STINIBOL	11G	12G	13G	14G	15G	16G	17G	18G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	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					А			
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F		1	.0		1.3 1.7			V	
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	5 150				μA				
Maximum reverse recovery time (Note 2)	t _{rr}	50 75				ns				
Typical junction capacitance (Note 3)	CJ	15 10					рF			
Typical thermal resistance	$R_{\theta JA}$	95					°C/W			
Operating junction temperature range	T _J	- 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: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



ORDERING INFORMATION							
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING		
HT1xG (Note 1)		A0	G	TS-1	3,000 / Ammo box (52mm taping)		
	Н	A1		TS-1	3,000 / Ammo box (26mm taping)		
	"	R0		TS-1	5,000 / 13" Paper reel		
		В0		TS-1	1,000 / Bulk packing		

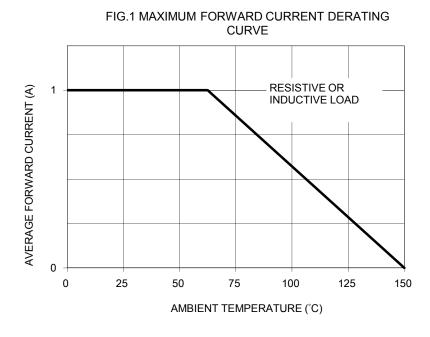
Note 1: "x" defines voltage from 50V (HT11G) to 1000V (HT18G)

^{*:} Optional available

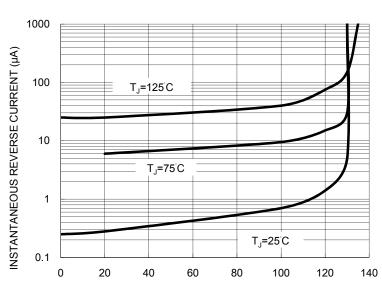
EXAMPLE							
PREFERRED P/N PART NO. PART NO. SUFFIX PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION				
HT17GHA0G	HT17G	н	A0	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

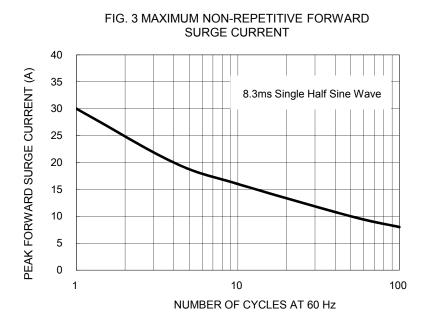
(T_A=25°C unless otherwise noted)

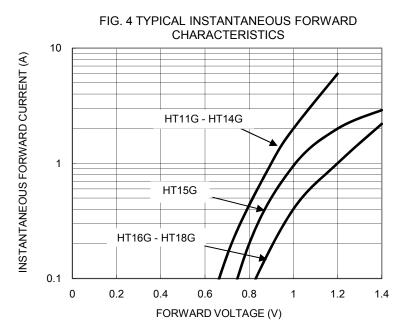






PERCENT OF RATED PEAK REVERSE VOLTAGE (%)









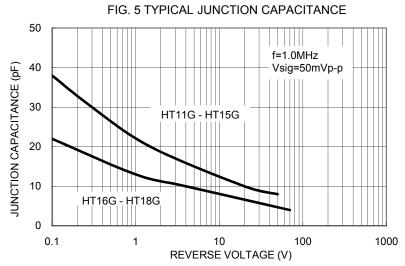
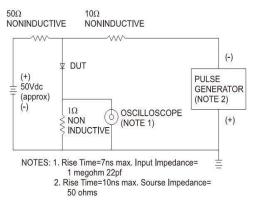
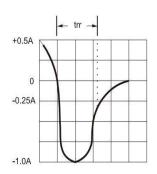


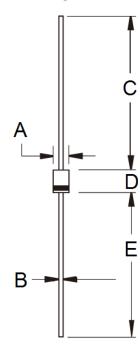
FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS

TS-1



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	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		
Е	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound

YW = Date Code F = Factory Code



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