



Glass Passivated High Efficient Rectifiers

FEATURES

- Glass passivated chip junction
- High efficiency, Low VF
- High current capability
- High reliability

Case: R-6

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



Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test Weight: 1.65 g (approximately)



R-6





MAXIMUM RATINGS AND ELECTRICAL CHAR	ACTERSTI	CS (T _A =	:25°C ur	nless otl	nerwise	noted)		
	CVAADOL	HER	HER	HER	HER	HER	HER	UNIT
PARAMETER	SYMBOL	601G	602G	603G	604G	605G	606G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	V
Maximum average forward rectified current	I _{F(AV)}	6				•	Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150					Α	
Maximum instantaneous forward voltage (Note 1) @ 6 A	V _F	1.0 1.3		1.7	V			
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	10 200			μΑ			
Maximum reverse recovery time (Note 2)	trr	50 75		75	ns			
Typical junction capacitance (Note 2)	Cj	80 65			65	pF		
Typical thermal resistance	$R_{\theta jA}$	37				°C/W		
Operating junction temperature range	T _J	- 55 to +150				оС		
Storage temperature range	T _{STG}	- 55 to +150				οС		
Note 1: Pulse Test with PW=300µs, 1% Duty Cycle								

Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

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

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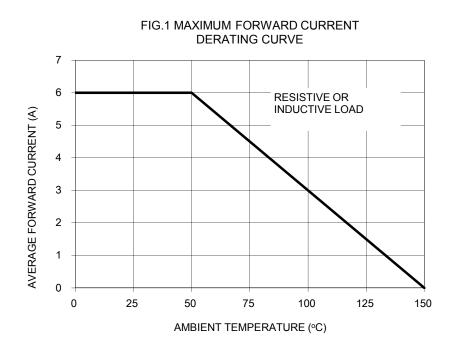
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING			
		CODE					
HER60xG (Note 1)	A0		R-6	700 / Ammo box			
	R0	Suffix "G"	R-6	1,000 / 13" Paper reel			
	В0		R-6	400 / Bulk packing			

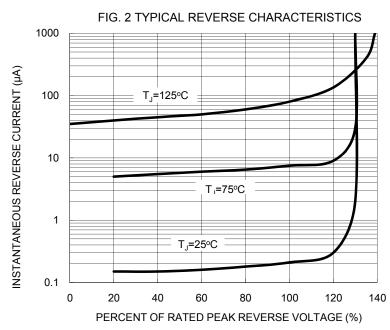
Note 1: "x" defines voltage from 50V (HER601G) to 600V (HER606G)

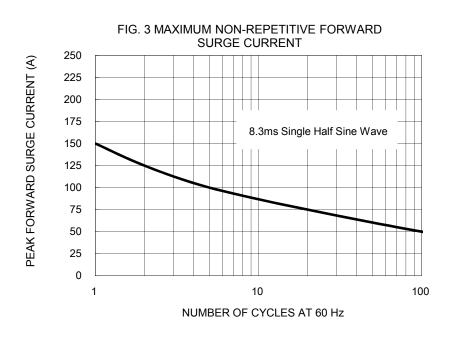
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
HER605G A0	HER605G	A0					
HER605G A0G	HER605G	A0	G	Green compound			

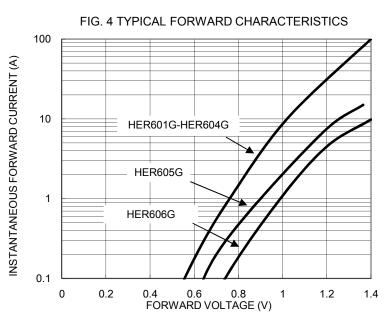
RATINGS AND CHARACTERISTICS CURVES

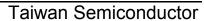
(TA=25°C unless otherwise noted)













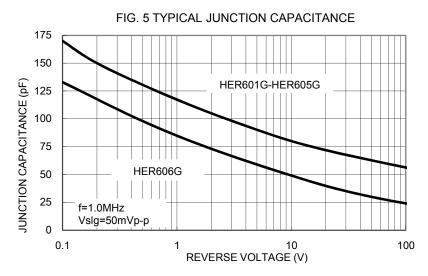
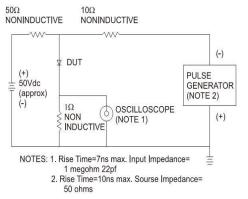
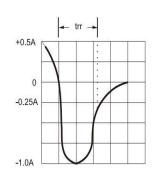


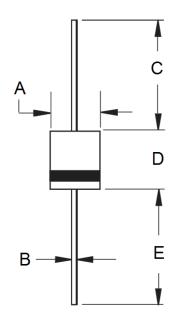
FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS

R-6



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	6.80	7.20	0.268	0.283		
В	1.20	1.30	0.047	0.051		
С	25.40	-	1.000	-		
D	8.60	9.10	0.339	0.358		
Е	25.40	_	1.000	_		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





Taiwan Semiconductor

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