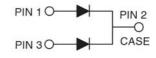
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: TO-247AD (TO-3P) 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 Polarity: As marked Mounting torque: 10 in-lbs maximum Weight: 5.6 g (approximately)

TO-247AD (TO-3P)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A =25°C unless otherwise noted)								
		HER	HER	HER	HER	HER	ŀ	
PARAMETER	SYMBOL	3001	3002	3003	3004	3005	3	
		РТ	РТ	РТ	РТ	РТ		
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400		
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	[·	
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400		
Maximum average forward rectified current	I _{F(AV)}	30						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	300						
Maximum instantaneous forward voltage (Note 2) I _F =15A	V _F	1.0 1.3						
Maximum reverse current @ rated VR T_J =25 $^{\circ}C$ T_J =125 $^{\circ}C$	I _R	10 500						
Maximum reverse recovery time (Note 2)	trr	50						
Typical junction capacitance (Note 3)	Cj	175						
Typical thermal resistance	$R_{ extsf{ heta}JC}$	1.4						
Operating junction temperature range	Τ _J	- 55 to +150						
Storage temperature range	T _{STG}	- 55 to +150						
Note 1: 2 Ous Pulse Width f=1 0KHz								

Note 1: 2.0µs Pulse Width, f=1.0KHz

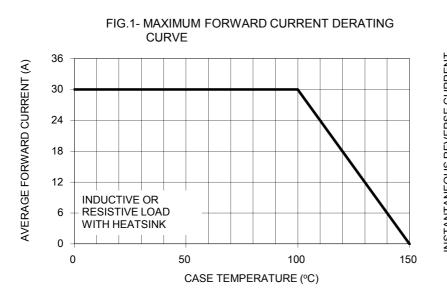
Note 2: Pulse Test : 300µs Pulse Width, 1% Duty Cycle

Document Number: DS_D1408004

EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTI			
HER3006PT C0	HER3006PT	C0					
HER3006PT C0G	HER3006PT	C0	G	Green compo			

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



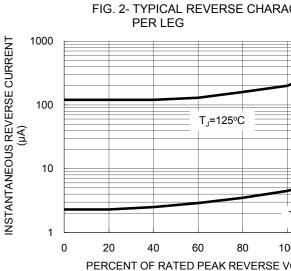
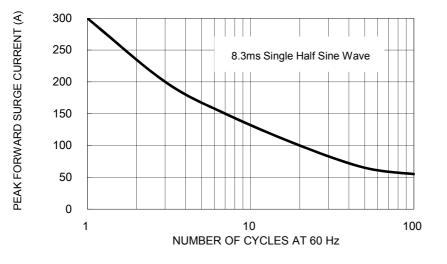
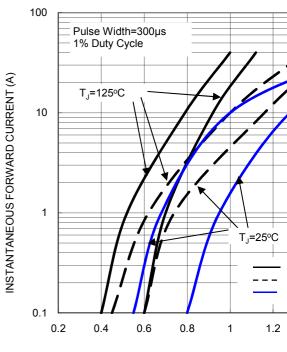


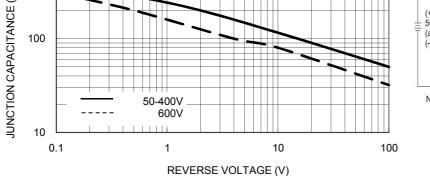
FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

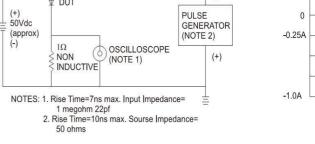




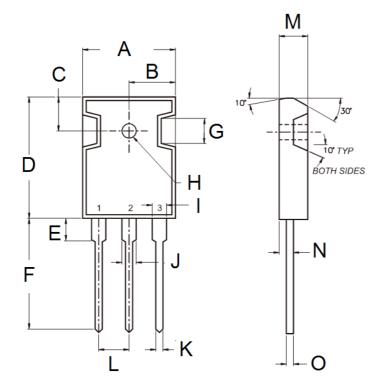


INSTANTANEOUS FORWARD VOLTAG





PACKAGE OUTLINE DIMENSIONS TO-247AD (TO-3P)



P/N

YWW

G

F

DIM.	Unit (mm)		Unit (inch)		
	Min	Мах	Min	Max	
А	15.90	16.40	0.626	0.646	
В	7.90	8.20	0.311	0.323	
С	5.70	6.20	0.224	0.244	
D	20.80	21.30	0.819	0.839	
Е	3.50	4.10	0.138	0.161	
F	19.70	20.20	0.776	0.795	
G	-	4.30	-	0.169	
Н	2.90	3.40	0.114	0.134	
I	1.93	2.18	0.076	0.086	
J	2.97	3.22	0.117	0.127	
K	1.12	1.22	0.044	0.048	
L	5.20	5.70	0.205	0.224	
М	4.90	5.16	0.193	0.203	
Ν	2.70	3.00	0.106	0.118	
0	0.51	0.76	0.020	0.030	

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
 - = Date Code
- = Factory Code

Document Number: DS_D1408004

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