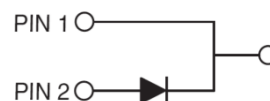


- High surge current capability
- High reliability
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



ITO-220AC



MECHANICAL DATA

Case: ITO-220AC

Molding compound, UL flammability classification rating 94V-0
 Packing code with suffix "G" means 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: 5 in-lbs maximum

Weight: 1.7 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	HERAF 801G	HERAF 802G	HERAF 803G	HERAF 804G	HERAF 805G	HERAF 806G	HERAF 807G
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	
Maximum average forward rectified current	I _{F(AV)}	8						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150						
Rating for fusing (t<8.3ms)	I ² t	93						
Maximum instantaneous forward voltage (Note 1) I _F = 8 A	V _F	1.0				1.3		
Maximum reverse current @ Rated V _R T _J =25 °C T _J =125 °C	I _R	10					400	
Maximum reverse recovery time (Note 2)	t _{rr}	50						
Typical junction capacitance (Note 3)	C _J	80						
Typical thermal resistance	R _{θJC}	2						
Operating junction temperature range	T _J	- 55 to +150						
Storage temperature range	T _{STG}	- 55 to +150						

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.

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

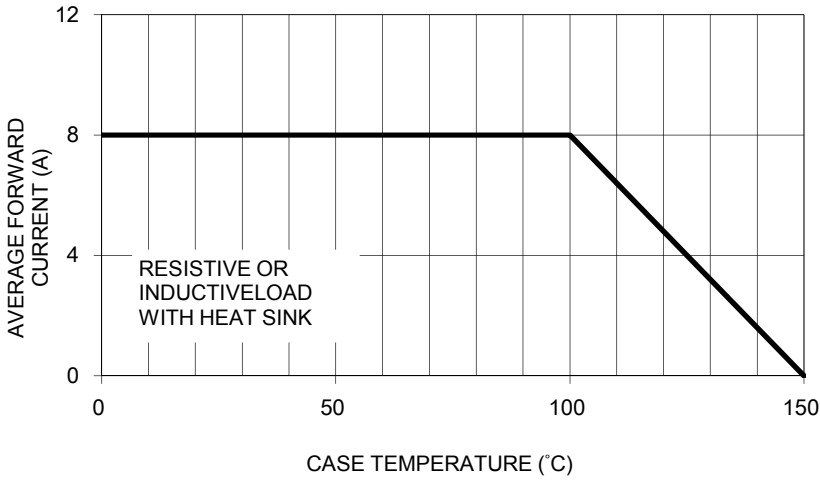


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

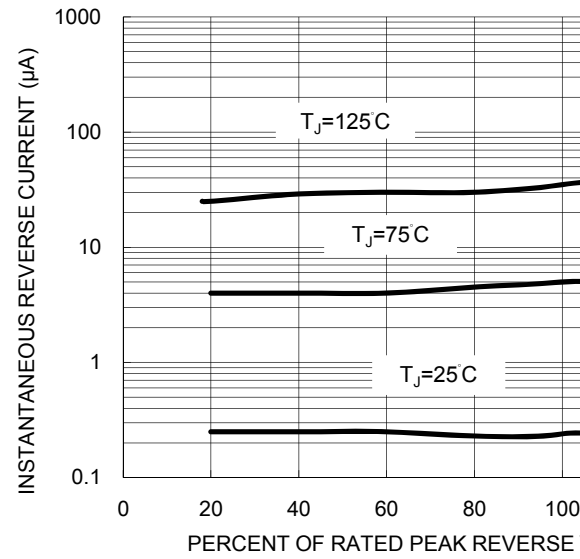


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

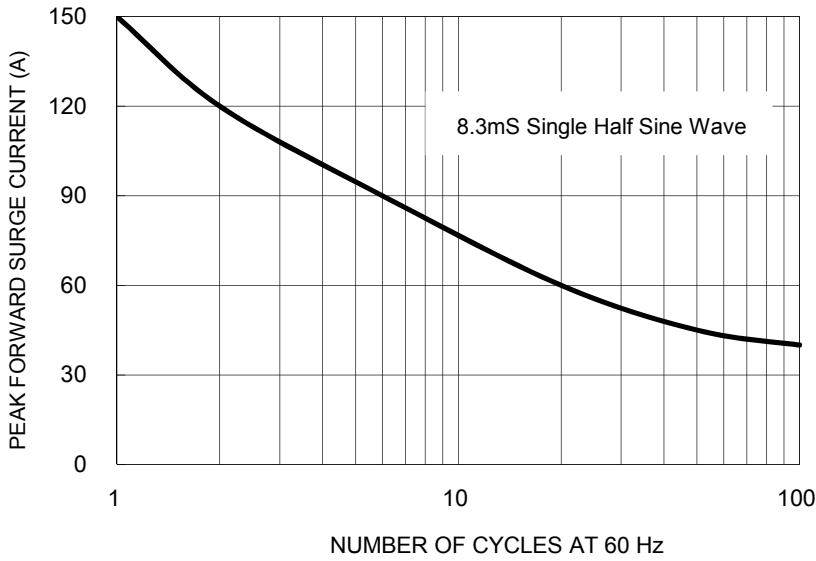
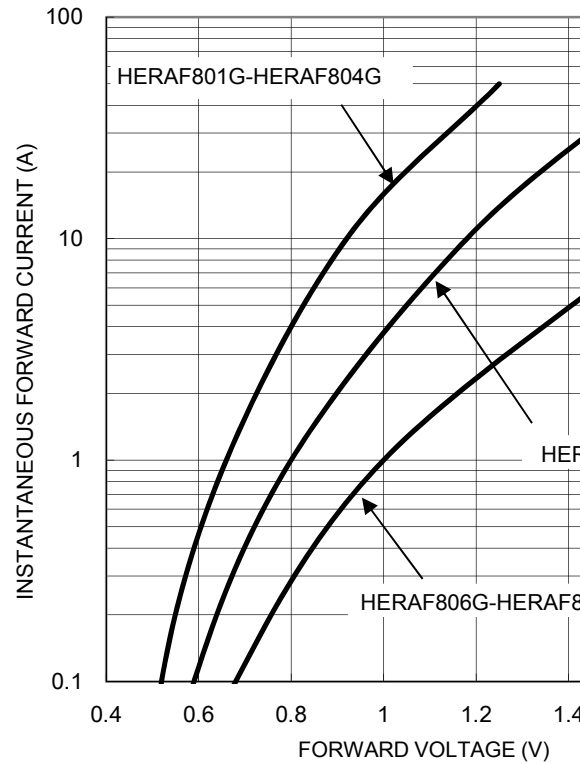
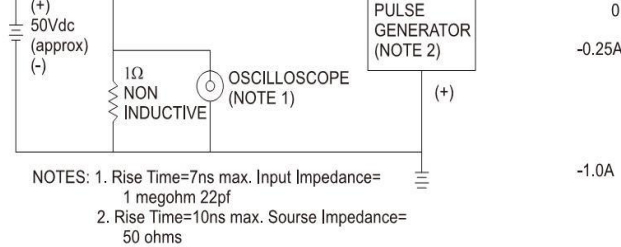
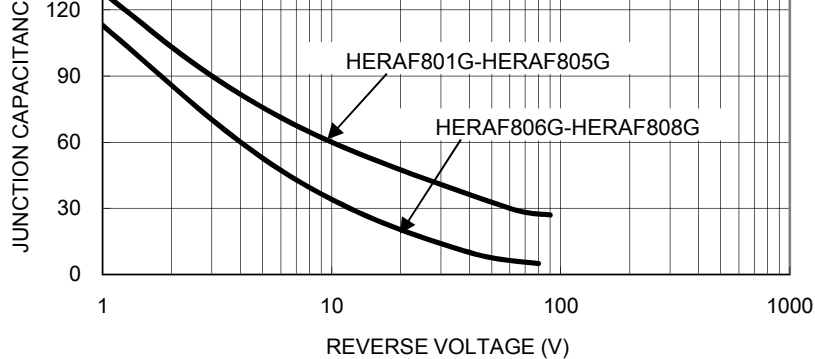
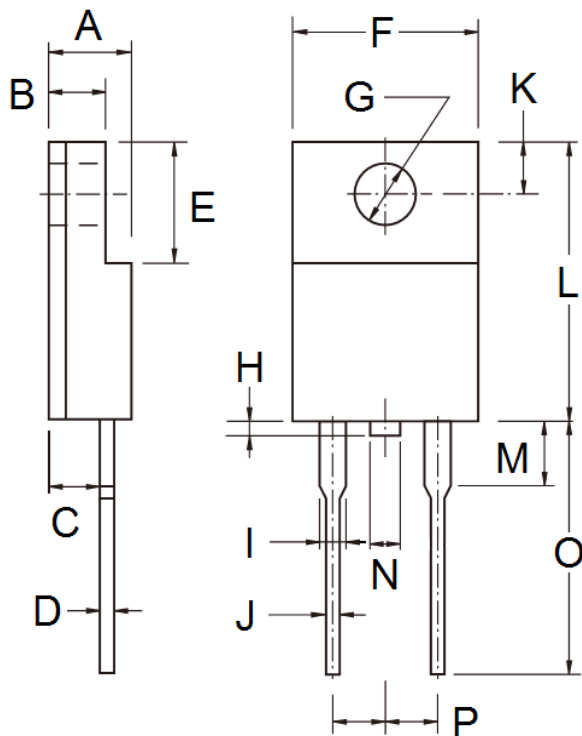


FIG. 4- TYPICAL FORWARD CHARACTERISTICS



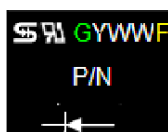


PACKAGE OUTLINE DIMENSIONS
ITO-220AC



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.10	0.098	0.122
C	2.30	2.90	0.091	0.114
D	0.46	0.76	0.018	0.030
E	6.30	6.90	0.248	0.272
F	9.60	10.30	0.378	0.406
G	3.00	3.40	0.118	0.134
H	0.00	1.60	0.000	0.063
I	0.95	1.45	0.037	0.057
J	0.50	0.90	0.020	0.035
K	2.40	3.20	0.094	0.126
L	14.80	15.50	0.583	0.610
M	-	4.10	-	0.161
N	-	1.80	-	0.071
O	12.60	13.80	0.496	0.543
P	4.95	5.20	0.195	0.205

MARKING DIAGRAM



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

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, of any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D0000057