

1.5A, 50V - 1000V Glass Passivated Fast Recovery Rectifiers

FEATURES

- Glass passivated chip junction
- High current capability, Low VF
- High reliability
- High surge current capability
- Low power loss, high efficiency
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



DO-204AC (DO-15)

MECHANICAL DATA

Case: DO-204AC (DO-15) Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) Terminal: Pure tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test Weight: 0.4 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	FR	FR	FR	FR	FR	FR	FR	UNIT
		151G	152G	153G	154G	155G	156G	157G	
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)}	1.5							А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50						А	
Maximum instantaneous forward voltage (Note 1) @ 1.5 A	V _F	1.3						V	
Maximum reverse current @ rated VR T _J =25 °C	I_	5 100							μA
T _J =125 °C	IR								
Maximum reverse recovery time (Note 2)	t _{rr}	150 25			250	500		ns	
Typical junction capacitance (Note 3)	CJ	20							pF
Typical thermal resistance	$R_{ extsf{ heta}JA}$	60							°C/W
Operating junction temperature range	TJ	- 55 to +150							°C
Storage temperature range	T _{STG}	- 55 to +150							°C

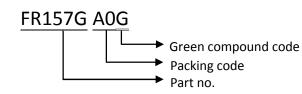
Note 1: Pulse Test with PW=300µs, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: $I_{\text{F}}\text{=}0.5\text{A},\,I_{\text{R}}\text{=}1.0\text{A},\,I_{\text{RR}}\text{=}0.25\text{A}$

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



ORDER INFORMATION (EXAMPLE)



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

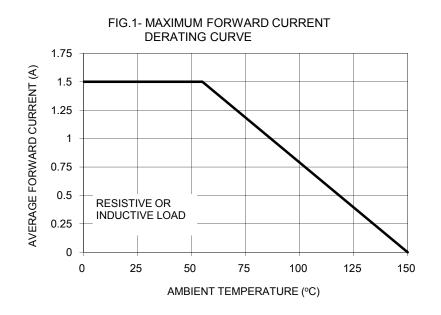
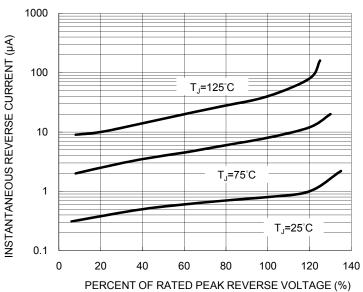
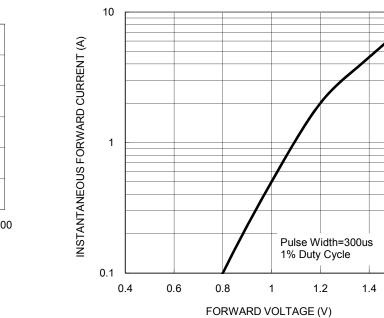
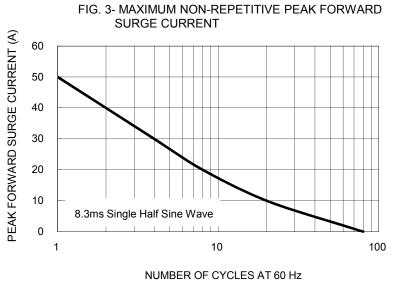


FIG. 2- TYPICAL REVERSE CHARACTERISTICS



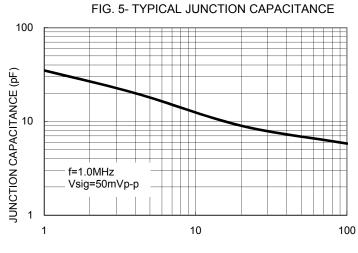






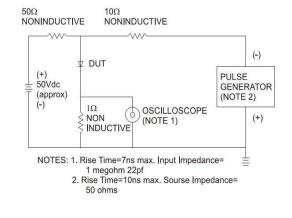
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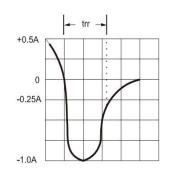
1.6



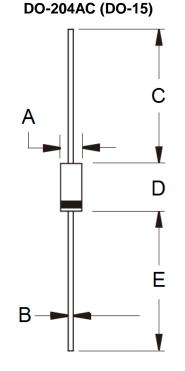
REVERSE VOLTAGE (V)

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





PACKAGE OUTLINE DIMENSIONS



Unit (mm) Unit (inch) DIM. Min Min Max Max 2.60 3.60 А 0.102 0.142 В 0.70 0.90 0.028 0.035 С 25.40 1.000 --0.299 D 5.80 7.60 0.228 25.40 Е 1.000 _

MARKING DIAGRAM



- P/N =Specific Device CodeG =Green CompoundYWW =Date Code
- F = Factory Code



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