

3A, 600V - 1000V Glass Passivated Rectifiers

FEATURES

- Glass passivated chip junction
- High efficiency, Low VF
- High current capability
- High surge current capability
- Low power loss
- 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: DO-204AC (DO-15)

Molding compound, UL flammability classification rating 94V-0

Part 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: 0.4g (approximately)

DO-204AC (DO-15)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	3A60	3A100	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	600	1000	V
Maximum RMS voltage	V _{RMS}	420	700	V
Maximum DC blocking voltage	V _{DC}	600	1000	V
Maximum average forward rectified current	I _{F(AV)}	3		A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120		A
Maximum instantaneous forward voltage (Note 1) @ 3 A	V _F	1.1		V
Maximum reverse current @ rated V _R	I _R	5		μA
		100		
Typical junction capacitance (Note 2)	C _J	27		pF
Typical thermal resistance	R _{θJL}	17		°C/W
	R _{θJA}	52		
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=300 μs, 1% duty cycle

Note 2: 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
3Axx (Note 1)	H	A0	G	DO-15	1,500 / Ammo box
		R0		DO-15	3,500 / 13" Paper reel
		B0		DO-15	1,000 / Bulk packing

Note 1: "x" defines voltage from 600V (3A60) to 1000V (3A100)

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
3A60HA0G	3A60	H	A0	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 MAXMUM FORWARD CURRENT DERATING CURVE

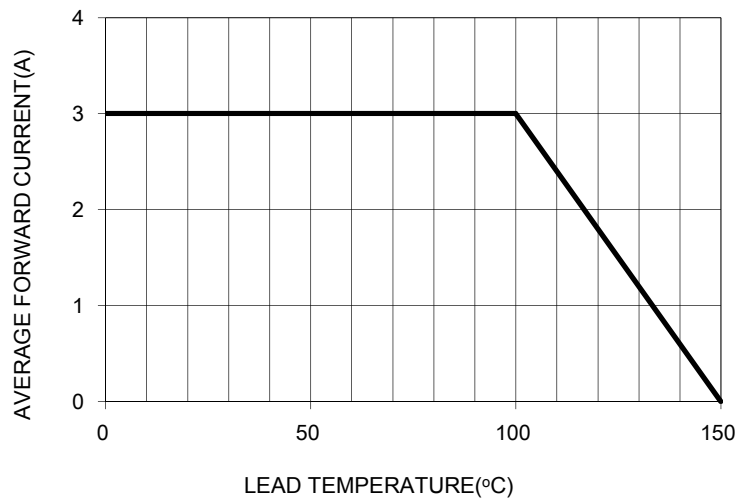


FIG. 2 MAXIMUM FORWARD SURGE CURRENT

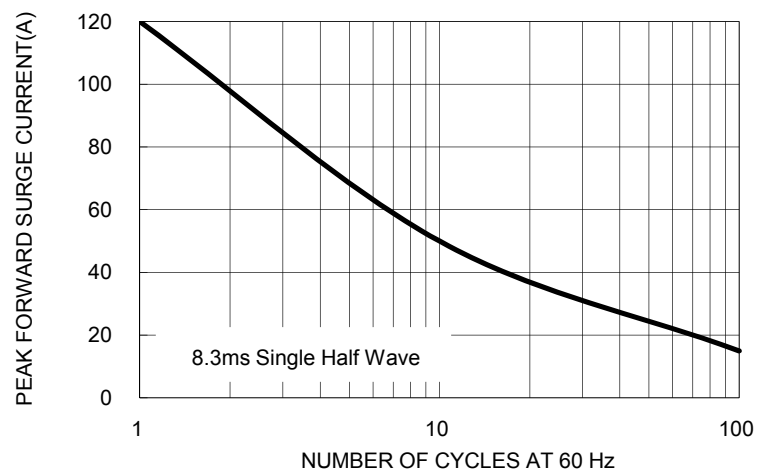


Fig. 3 TYPICAL FORWARD CHARACTERISTICS

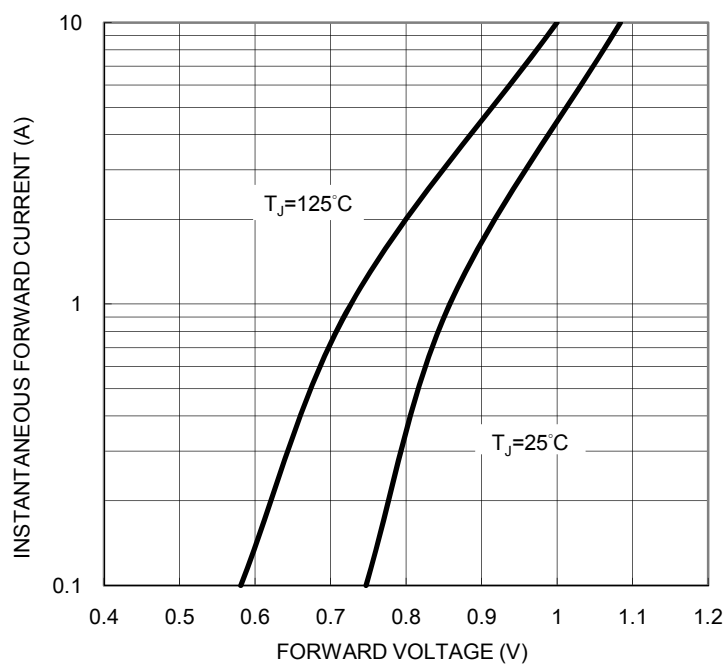


FIG. 4 MAXIMUM REVERSE LEAKAGE CHARACTERISTICS

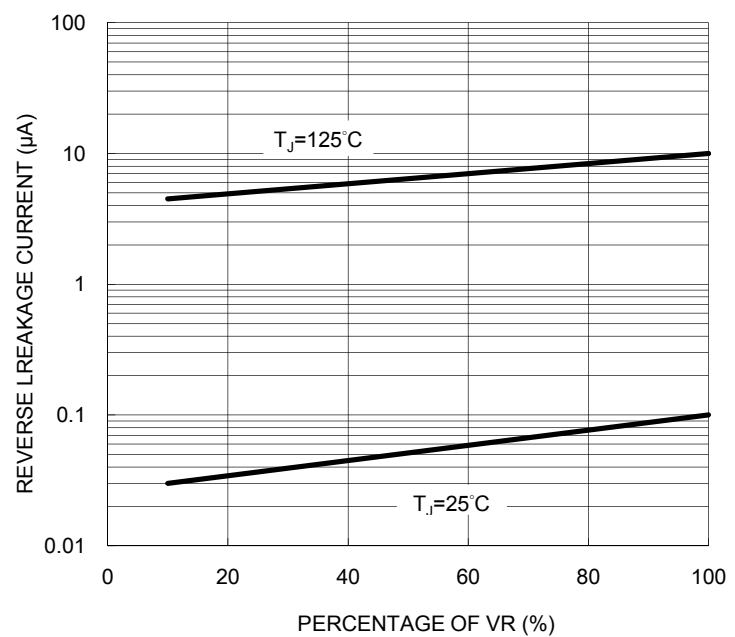
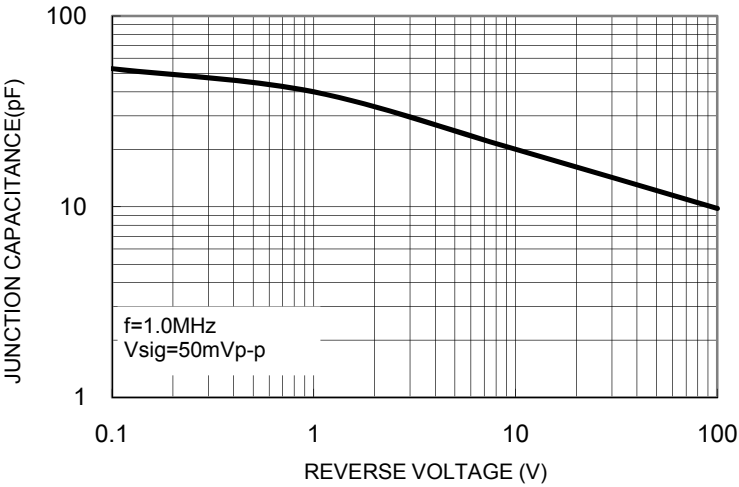


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS
DO-204AC (DO-15)

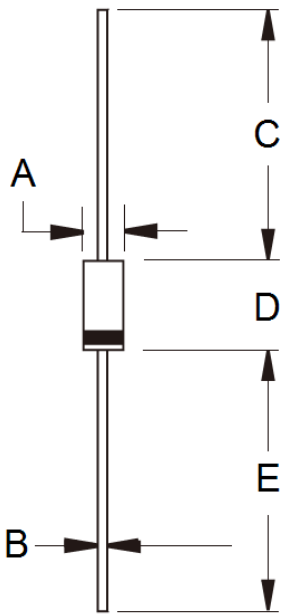


Table with 5 columns: DIM., Unit (mm) Min, Unit (mm) Max, Unit (inch) Min, Unit (inch) Max. Rows include dimensions A, B, C, D, and E with their respective min/max values in mm and inches.

MARKING DIAGRAM



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

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