



25A, 1000V Glass Passivated Rectifier

FEATURES

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







MECHANICAL DATA

Case: DO-201AD **P2500**

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:** 1.9 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	P2500M	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	1000	V	
Maximum RMS voltage	V _{RMS}	700	V	
Maximum DC blocking voltage	V _{DC}	1000	V	
Maximum average forward rectified current	I _{F(AV)}	25	А	
Peak forward surge current, 10 ms single half sine-wave superimposed on rated load	I _{FSM}	650	А	
Rating for fusing, t<10ms	l ² t	2100	A ² s	
Maximum instantaneous forward voltage (Note 1) @ 5 A	V _F	0.87	V	
Maximum reverse current @ rated V _R T _J =25°C	I _R	5	μA	
Turning the armed registers of	В	0.8 (Note 2)	°C/W	
Typical thermal resistance	$R_{\theta JL}$	6.0 (Note 3)		
Operating junction temperature range - in DC forward mode	TJ	- 50 to +175 ≤ 200	°C	
Storage temperature range	T _{STG}	- 55 to +175	°C	

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Thermal resistance from junction to lead/terminal at a distance 0 mm from case.

Note 3: Mount on Heat sink size of 4in x 6in x 0.25in Al-Plate



ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING
P2500M	П	A0	G	P2500	500 / Ammo box
	11	R0	G	P2500	800 / 13" Paper reel

^{*:} Optional available

EXAMPLE						
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
P2500MHA0G	P2500M	Н	A0	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



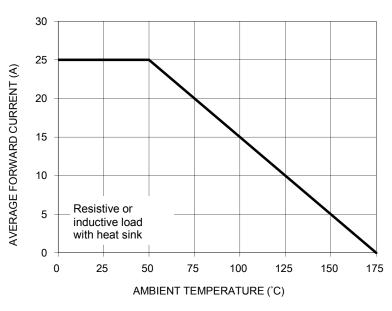


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

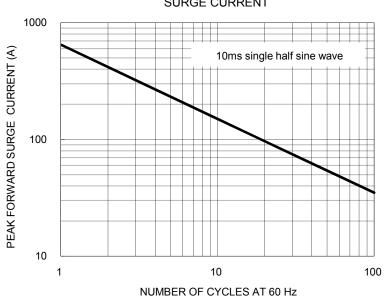


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

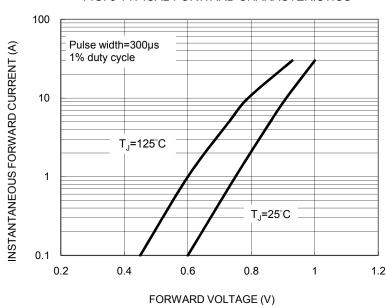
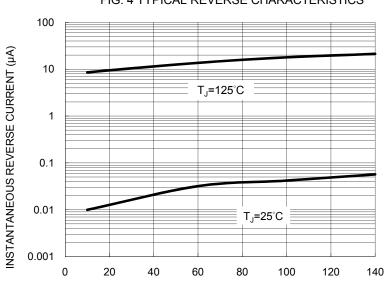


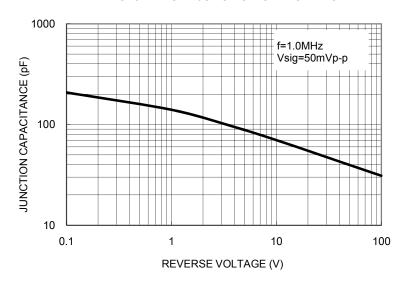
FIG. 4 TYPICAL REVERSE CHARACTERISTICS



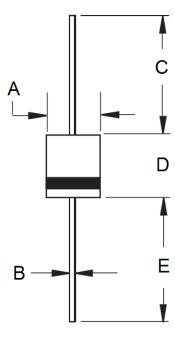
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS P2500



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	7.8	8.2	0.307	0.323
В	1.2	1.3	0.047	0.051
С	25.4	-	1.000	-
D	7.55	8.05	0.297	0.317
Е	25.4	-	1.000	-

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code

Version: B1511







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