

1.5A GLASS PASSIVATED RECTIFIER DIODE



APPLICATIONS

Automotive

FEATURES

- AEC-Q101 Qualification Pending
- Glass Passivated Chip
- Low Power Loss
- Low Forward Voltage Drop
- Low Reverse Current
- Low Forward Voltage Drop
- RoHS Compliant
- REACH Compliant

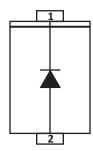
MECHANICAL CHARACTERISTICS

- Molded JEDEC DO-214AC Package
- Approximate Weight: 0.06 grams
- Lead-Free Pure-Tin Plating (Annealed)
- Solder Reflow Temperature:

Pure-Tin - Sn, 100: 260-270°C

- 12mm Tape and Reel Per EIA Standard 481
- Terminal: Solderable per MIL-STD-750, Method 2026
- Flammability Rating UL 94V-0

PIN CONFIGURATION

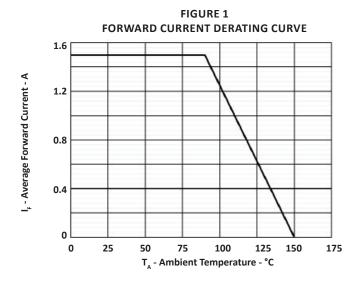


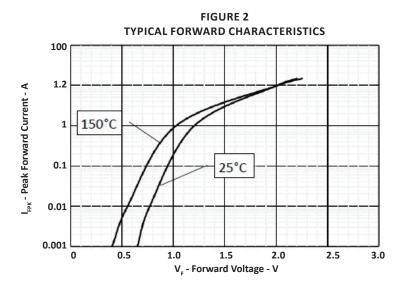


TYPICAL DEVICE CHARACTERISTICS

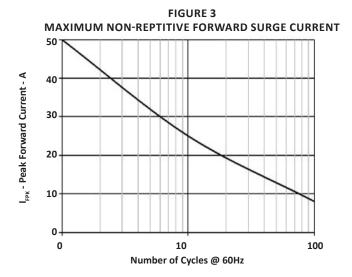
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified							
PARAMETER	SYMBOL	VALUE	UNITS				
Operating Temperature	$T_{_{A}}$	-55 to 150	°C				
Storage Temperature	T _{STG}	-55 to 150	°C				
Peak Forward Surge Current, 8.3ms single half-sine wave superimposed on rated load.	I _{FSM}	50	Amps				
Typical Thermal Resistance - Lead	R _{⊙JL}	40	°C/W				
Typical Thermal Resistance - Ambient	R _{oja}	80	°C/W				

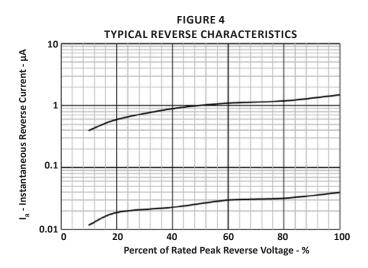
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified								
PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE	MINIMUM RMS VOLTAGE	MAXIMUM DC BLOCKING VOLTAGE	MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT	MAXIMUM FORWARD VOLTAGE	MAXIMUM REVERSE LEAKAGE CURRENT	
		V _{RRM} VOLTS	V _{RMS} VOLTS	V _{DC} VOLTS	I _{F(AV)} AMPS	@1.5A V _F VOLTS	@ V _{RRM} Ι _R μΑ	
PAM38DOAC10Y	BYG10Y	1600	1120	1600	1.5	1.15	1	





TYPICAL DEVICE CHARACTERISTICS

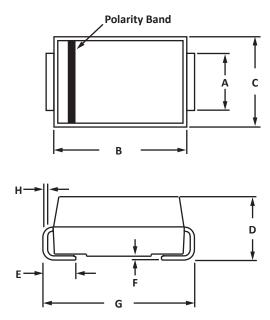




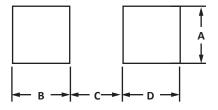
DO-214AC PACKAGE INFORMATION

OUTLINE DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
וווטן	MIN	MAX	MIN	MAX				
А	1.23	1.63	0.049	0.064				
В	4.10	4.55	0.162	0.179				
С	2.51	2.76	0.099	0.109				
D	1.96	2.26	0.077	0.089				
Е	0.75	1.51	0.03	0.06				
F	0.00	0.20	0.000	0.008				
G	4.87	5.22	0.192	0.206				
Н	0.15	0.30	0.006	0.012				

NOTES

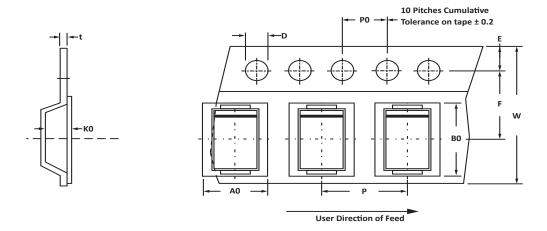


PAD LAYOUT DIMENSIONS								
DIM	MILLIN	IETERS	INC	HES				
DIIVI	MIN	MAX	MIN	MAX				
Α	1.57	-	0.062	-				
В	1.55	-	0.061	-				
С	-	2.28	-	0.090				
D	1.55	-	0.061	-				



^{1.} Dimensions are exclusive of mold flash and metal burrs.

TAPE AND REEL



SPECIFICATIONS											
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	P0	Р	tmax
330mm (13")	12mm	2.79 ± 0.10	5.33 ± 0.10	2.36 ± 0.10	1.55 ± 0.10	1.75 ± 0.10	5.5 ± 0.05	12.00 ± 0.30	4.00 ± 0.10	4.00 ± 0.10	0.4

NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Suffix T13 = 13" Reel 5,000 pieces per 16mm tape.
- 4. Marking on Part marking code (see page 2), date code, logo and polarity band.

ORDERING INFORMATION							
BASE PART NUMBER	LEADFREE SUFFIX	REEL SIZE	TUBE QTY				
PAM38DOAC10Y	n/a	-T13	5,000	13"	n/a		

This device is only available in a Lead-Free configuration.

Suffix -NQ = This is currently a commercial grade device and is waiting for AEC-Q101 qualification. Please contact customer service for more information.



COMPANY INFORMATION

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In business more than 25 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products. ProTek Devices is ISO 9001:2015 certified.

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