



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volts | CURRENT | 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
 For surface mounted applications
- · Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
 Low power loss,high efficiency

- High surge capacity
 For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
 Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)



Case: JEDEC DO-214AC molded plastic

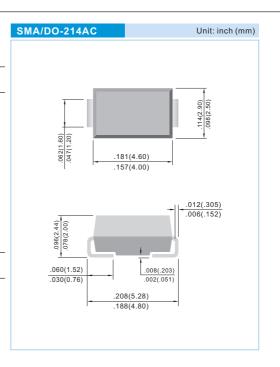
Terminals:Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes positive end (cathode)

Standard packaging: 12mm tape (EIA-481)

Weight: 0.002 ounce, 0.064 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SX32	SX33	SX34	SX35	SX36	SX38	SX39	SX310	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	٧
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	64	70	٧
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	V
Maximum Average Forward Current at TL=75°C	I _{F(AV)}	3.0								А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	80								Α
Maximum Forward Voltage at 3.0A (Note 1)	V _F	0.5 0.68 0.85					V			
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	I _R	0.5 20								mA
Maximum Thermal Resistance (Note 2)	R _{ejl} R _{eja}	20 75								°C / W
Operating Junction Temperature Range	T	-55 TO +125								°C
Storage Temperature Range	T _{STG}	-55 TO +150								°C

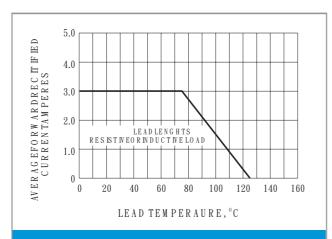
- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 8.0mm² (.013mm thick) copper pad areas.

STAD-JAN.03.2006 PAGE . 1





RATING AND CHARACTER ISTIC CURVES



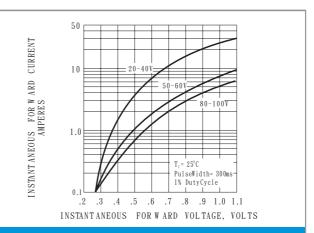


Fig. 27YPICAL INSTANT ANEOUS FOR WARD CHARACTERISTIC

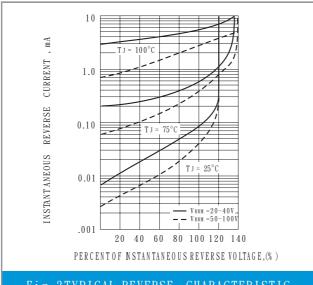
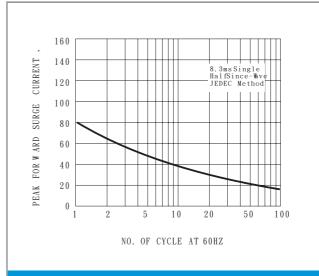


Fig. 3TYPICAL REVERSE CHARACTERISTIC

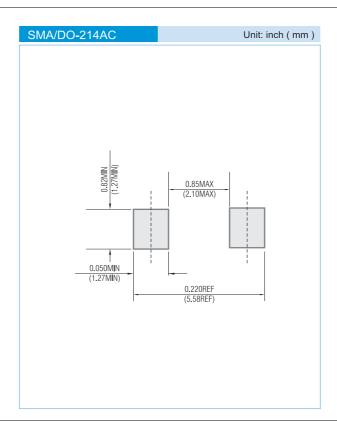


STAD-JAN.03.2006 PAGE . 2





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8Kper 7" plastic Reel





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

STAD-MAY.23.2007 PAGE . 4