



SILICON RECTIFIERS GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 600 Volts
FORWARD CURRENT - 20 Amperes

FEATURES

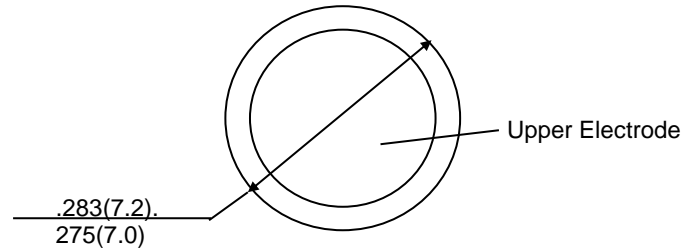
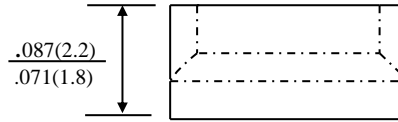
- Low cost
- High surge capability
- Solderable electrode surface
- Ideal for hybrids

MECHANICAL DATA

- Polarity: Bottom or upper electrode denotes cathode according to the notice in package

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

SOZER



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	RC20S06	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current @T _A =55 °C (Note 2)	I _{F(AV)}	20	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	550	A
Maximum Instantaneous Forward Voltage (at Rated Forward Current)	V _F	1.1	V
Maximum DC Reverse Current @T _A =25 °C	I _R	10	uA
at Rated DC Blocking Voltage @T _A =150 °C		1000	
Typical Junction Capacitance Element (Note1)	C _J	300	pF
Typical Thermal Resistance (Note3)	R _{θJA}	1	°C/W
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES:1. Measured at 1.0 MHz and applied voltage of 4.0V DC.

- When mounted to heat sink from body.
- Thermal resistance from junction to ambient.
- Type were denoted in the notice of the package.
- The typical data above is for reference only.



FIG. 1 – FORWARD CURRENT DERATING CURVE

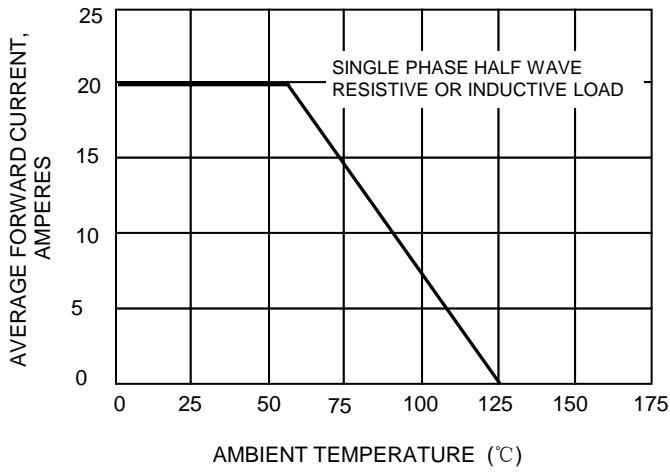


FIG. 2-NON-REPETITIVE PEAK FORWARD SURGE CURRENT

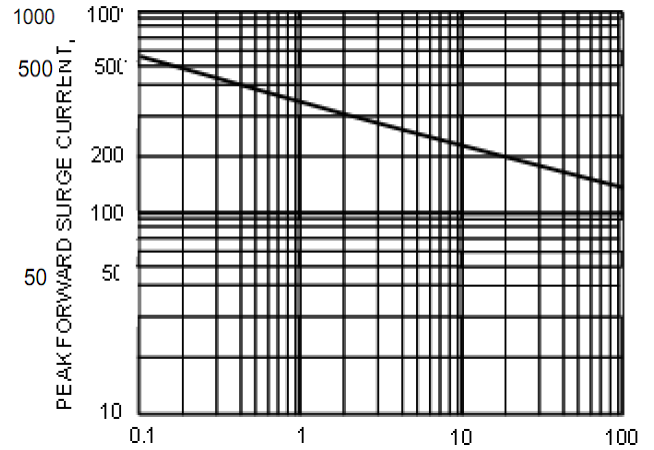


FIG.3-FORWARD CURRENT DERATING CURVE

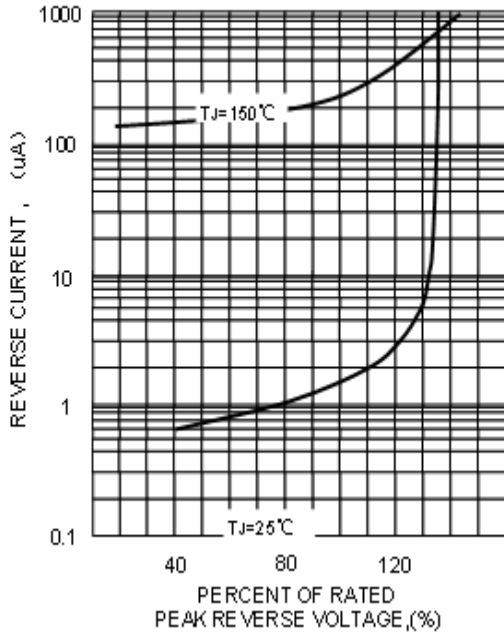


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

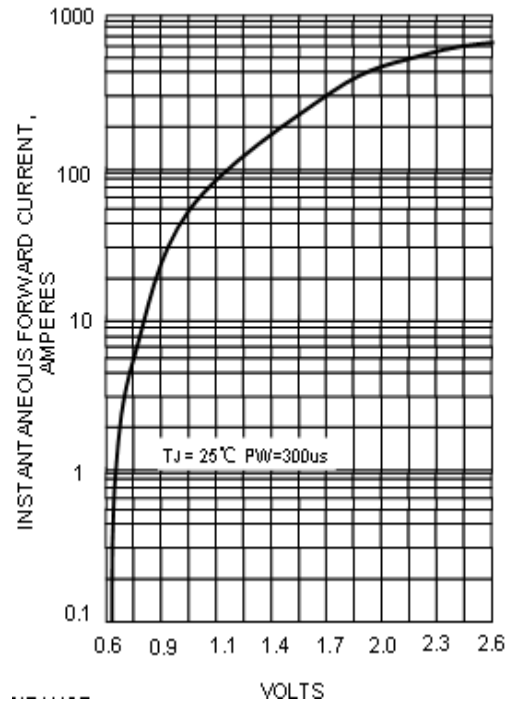
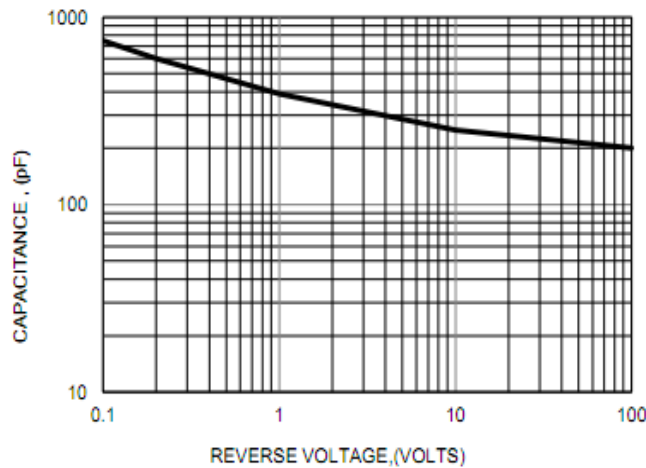


FIG.5-TYPICAL JUNCTION CAPACITANCE





Disclaimer

ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

HY makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, HY disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on HY's knowledge of typical requirements that are often placed on HY products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify HY's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, HY products are not designed for use in medical, life-saving, or life-sustaining applications or for any other applications in which the failure of the HY product could result in personal injury or death. Customers using or selling HY products not expressly indicated for use in such applications do so at their own risk. Please contact authorized HY personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of HY. Product names and markings noted herein may be trademarks of their respective owners.