SR1630CT THRU SR16150CT

Reverse Voltage - 30 to 150 Volts **Forward Current - 16.0 Amperes**

Schottky Barrier Recitifiers

Features

- Low forward voltage drop
- High current capability
- High surge capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

- ●Case: JEDEC TO-220AB molded plastic
- Polarity: As marked on the body
- Mounting position: Any

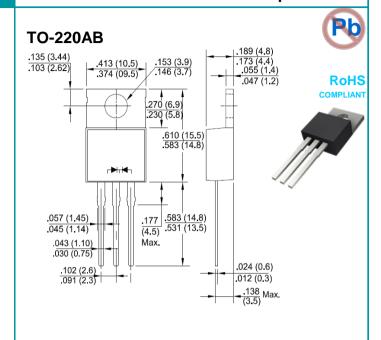




are made by HY Electronic (Cayman) Limited.

Applications

 For use in low vlotage, high frequency inverters, polarity protection applications.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	SR	SR	SR	SR	SR	SR	SR	Unit
	Symbol	1630CT	1640CT	1650CT	1660CT	1680CT	16100CT	16150CT	
Maximum Repetitive Peak Reverse Voltage	Vrrm	30	40	50	60	80	100	150	V
Maximum RMS Voltage	VRMS	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current @ Tc=95°C	I(AV)	16							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Isou	IFSM 150						Α	
Superimposed on Rated Load (JEDEC Method)	IFSIM				100				A
Peak Forward Voltage at 8.0A DC (Note1)	VF	0.55 0.			70	0.85		0.95	V
Maximum DC Reverse Current @TJ=25°C	In.	1.0							mA
at Rated DC Blocking Voltage @T _J =100 $^{\circ}$ C	IK	50							IIIA
Typical Junction Capacitance (Note2)	Cı	350							pF
Typical Thermal Resistance Junction to Case	Rejc	2.5							°C/W
Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$
Storage Temperature Mange	1316	-00 to +100							

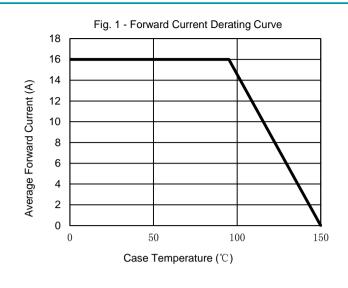
Notes: 1. 300us pulse width,2% duty cycle.

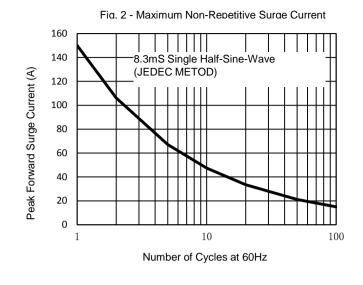
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only.

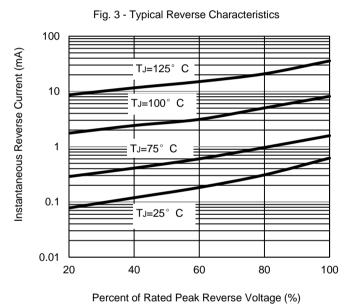
SR16*CT-U-00-00 Rev. 11, 18-May-2020

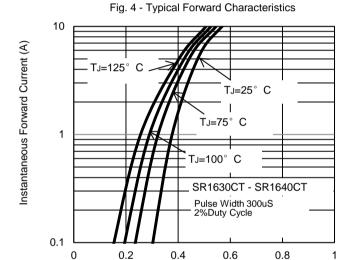
Rating and Characteristic Curves SR1630CT THRU SR16150CT





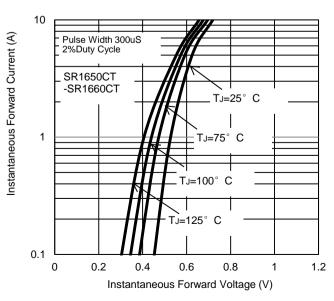


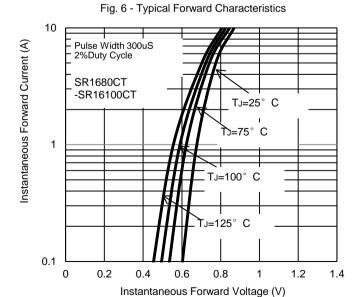




Instantaneous Forward Voltage (V)





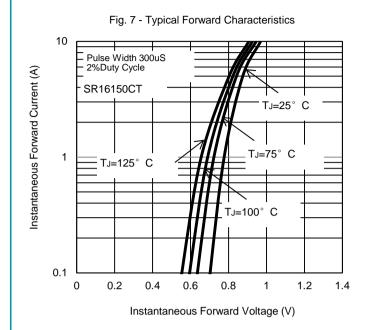


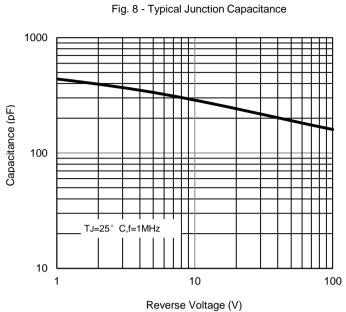
The curve above is for reference only.

SR16*CT-U-00-00 Rev. 11, 18-May-2020

Rating and Characteristic Curves SR1630CT THRU SR16150CT







The curve above is for reference only.

SR16*CT-U-00-00 Rev. 11, 18-May-2020



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 cotinuing 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.