Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

SCHOTTKY BARRIER RECTIFIERS

SR220 - SR2100

DO-15
Axial Lead Plastic Package

For use in Low Voltage, High Frequency Inverters, Free Wheeling Diodes and Polarity Protection Applications

Maximum RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25ºC Ambient Temperature unless specified otherwise. Single Phase, half wave 60H_Z, Resistive or Inductive Load. For Capacitive Load, Derate by 20%)

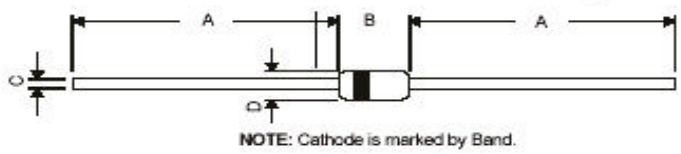
DESCRIPTION	SYMBOL	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	UNIT
Maximum Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Average Forward Rectified Current 0.375"(9.5mm) Lead Length	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0							A
Maximum Instantaneous Forward Voltage at I_F=2.0A	V_F	0.55			0.7		0.85		V
Maximum DC Reverse Current T_a=25°C at Rated DC Blocking Voltage T_a=100°C	I_R	0.5 20							mA mA
Junction Capacitance	*C_J	TYP180							pF
Thermal Resistance Junction to Ambient	**$R_{th\ (j-a)}$	TYP45							ºC/W
Operating Junction Temperature Range	T_j	- 55 to +125			- 55 to +150				ºC
Storage Temperature Range	T_{stg}	- 55 to +150							ºC

***Measured at 1MHz and Applied Reverse Voltage 0f 4V**

**** Thermal Resistance from Junction to Ambient "0.375" (9.5mm) Lead PCB Mounted**

SR220_2100Rev_1 100606E

DO-15 Glass Axial Package

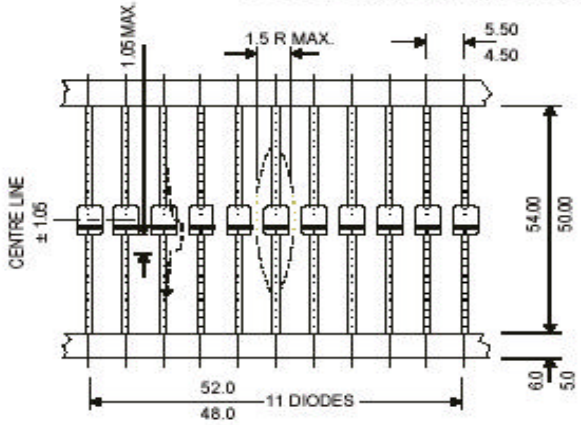


NOTE: Cathode is marked by Band.

DIM	MIN	MAX
A	25.40	—
B	5.8	7.5
C	0.7	0.9
D	2.6	3.6

All dimensions are in mm.

DO-15, 52mm Taping Specification

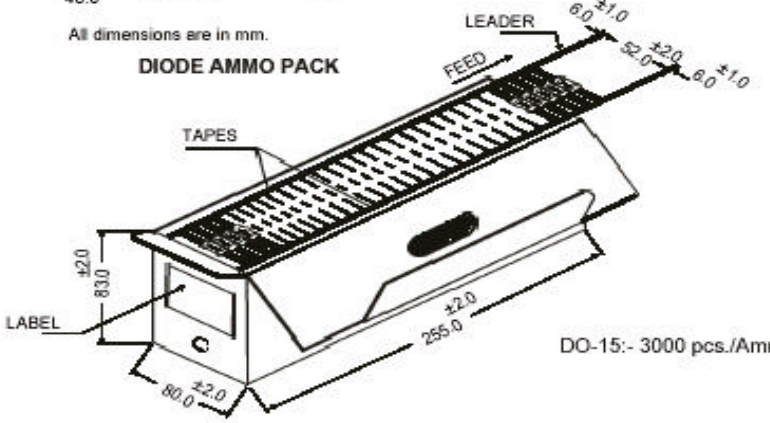


52 mm Taping Specification

1. T & A indicates Axial Tape and Ammo Packing (52 mm Tape Spacing).
2. 300 mm (min) leader tape on every tape.
3. No. of empty places allowed 0.25% without consecutive empty places.
4. Ends of leads shall preferably not protrude beyond the tapes.
5. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

All dimensions are in mm.

DIODE AMMO PACK



DO-15:- 3000 pcs./Ammo Pack

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.

2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

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Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.

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