

4A GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS

MUR440

MUR460

DO-201AD

Axial Lead

Plastic Package



Features :

- 1). Glass Passivated Junction Chip
- 2). Plastic Package has Underwriters Laboratories Flammability Classification 94V-0
- 3). Ideal Suited for use in very High Frequency Switching Power Supplies, Inverters and as Free Wheeling Diodes
- 4). Ultra Fast Recovery time for High Efficiency
- 5). Polarity : Colour band denotes Cathode end
- 6). Terminals : Plated Axial Leads, Solderable per MIL-STD-750, Method 2026
- 7). High Temperature Soldering Guaranteed : 250°C/10 Seconds, 0.375" (9.5mm) Lead Length,
5 lbs. (2.3Kg) tension
- 8). Weight : 1.2g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single Phase Half-Wave, 60Hz, Resistive or Inductive Load Rating at 25°C, unless otherwise stated)

DESCRIPTION	SYMBOL	MUR440	MUR460	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	V
Maximum RMS Voltage	V_{RMS}	280	420	V
Maximum DC Blocking Voltage	V_{DC}	400	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	4		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	150		A
Maximum Forward Voltage at Rated Forward Current	V_F	1.35		V
Maximum Reverse Recovery Time (Note 1)	t_{rr}	60		ns
Typical Thermal Resistance, Junction to Ambient	R_{thJA}	28		°C/W
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25^\circ C$	I_R	10	μA
	$T_A = 125^\circ C$		300	μA
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150		°C

Notes :

- 1). Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
- 2). Lead Length = 1/2" on P.C. Board with 1.5" X 1.5" Copper Surface

TYPICAL CHARACTERISTICS CURVES

Fig. 1 – Forward Current Derating Curve

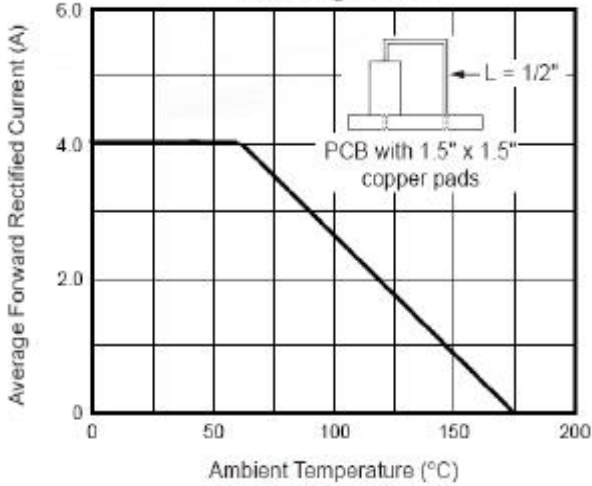


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

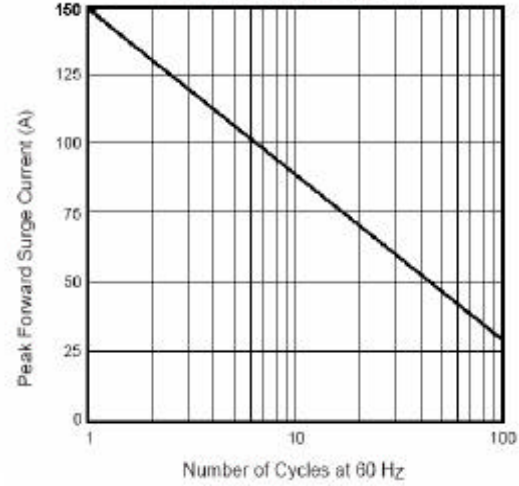


Fig. 3 – Typical Instantaneous Forward Characteristics

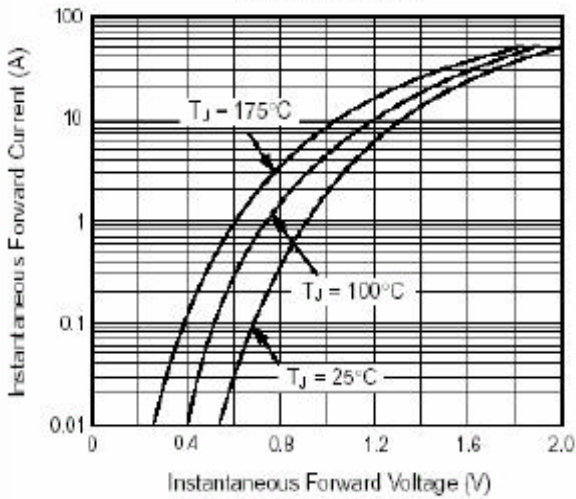


Fig. 4 – Typical Reverse Characteristics

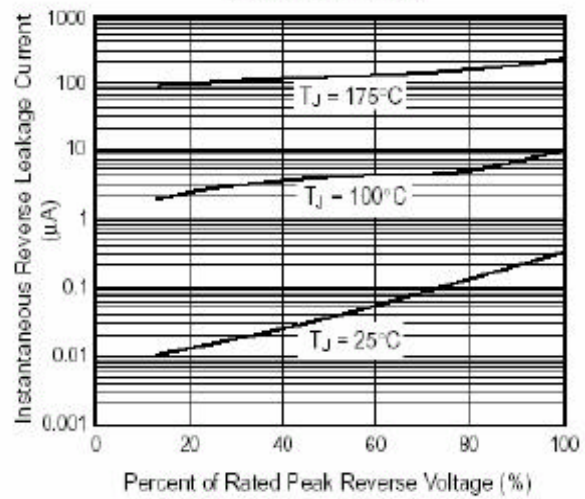
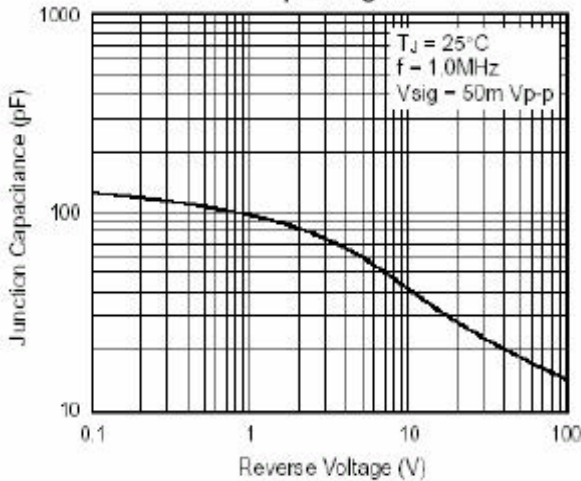
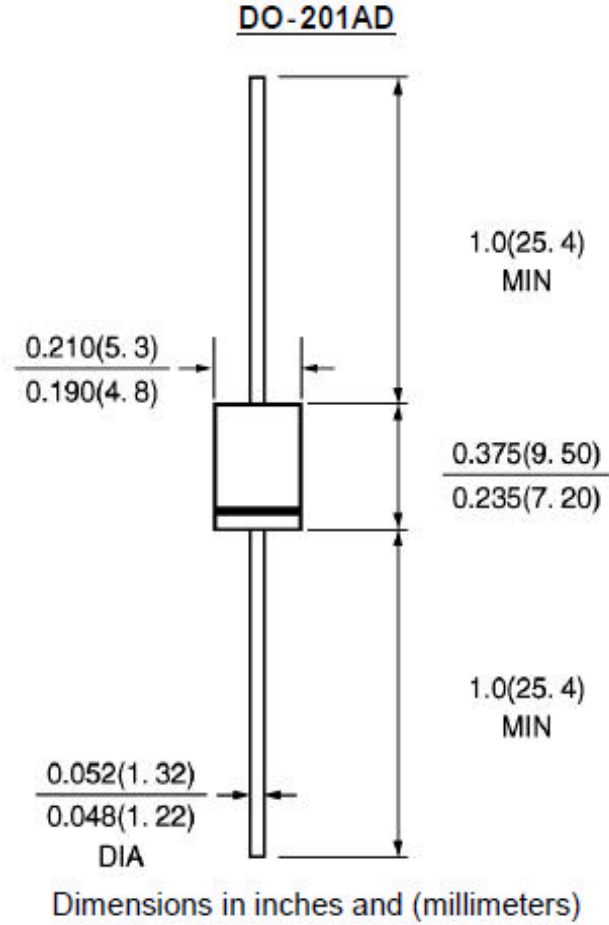


Fig. 5 – Typical Junction Capacitance per Leg



Package Outline Dimension DO-201AD





Continental Device India Pvt. Limited

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



Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete 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 Discrete 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.



CDIL is a registered Trademark of
Continental Device India Pvt. Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.

Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119

email@cdil.com www.cdil.com

CIN No. - U32109DL1964PLC004291