

8A ULTRA FAST RECTIFIERS

MUR805 TO MUR860

TO-220AC

PLASTIC PACKAGE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C Ambient Temperature unless specified otherwise.)

DESCRIPTION		SYMBOL	MUR 805	MUR 810	MUR 820	MUR 840	MUR 860	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current at T _A = 150°C		I _(AV)	8.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	125					A
Maximum Instantaneous Forward Voltage at IF=8.0A		V _F	1			1.3	1.8	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	10.0					mA
	T _A =150°C		500.0					mA
Maximum Reverse Recovery Time (Note 1)		t _{rr}	50					ns
Operating Junction and Storage Temperature Range		T _j , T _{stg}	-50°C to +150°C					°C

Note : 1. Reverse Recovery Condition $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$

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CHARACTERISTICS CURVES

Figure 1
Typical Forward Characteristics

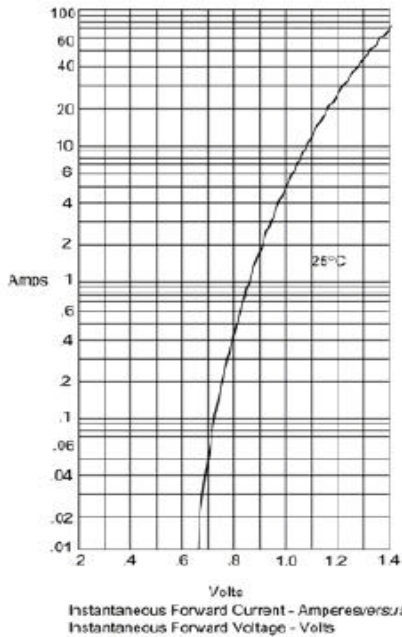


Figure 2
Typical Reverse Characteristics

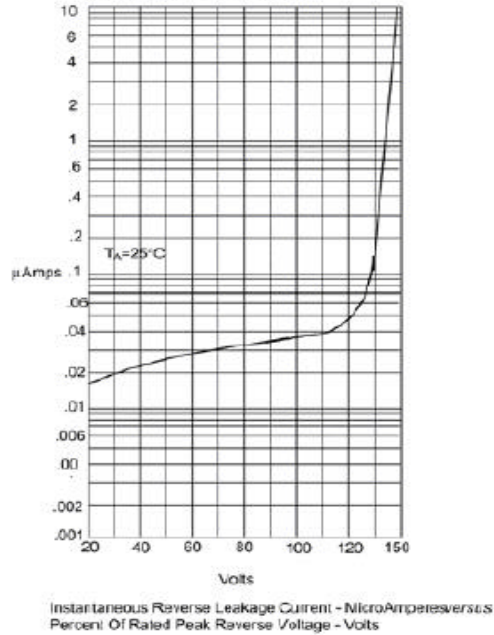


Figure 3
Forward Derating Curve

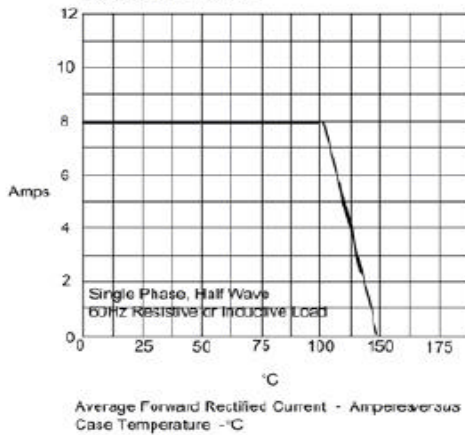
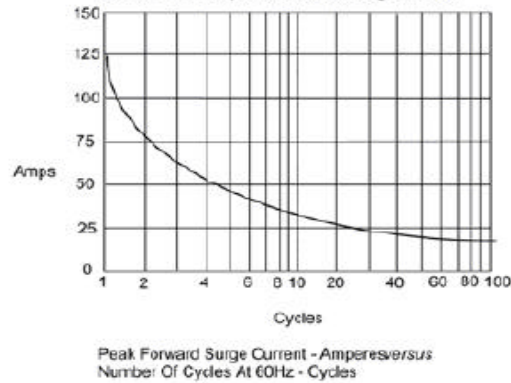


Figure 4
Maximum Non-Repelitive Forward Surge Current



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Continental Device India Limited

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



Customer Notes

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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).

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).

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