

MUR840-BP Datasheet



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DiGi Electronics Part Number	MUR840-BP-DG
Manufacturer	Micro Commercial Co
Manufacturer Product Number	MUR840-BP
Description	Interface
Detailed Description	Diode 400 V 8A Through Hole TO-220AC

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Purchase and inquiry

Manufacturer Product Number:

MUR840-BP

Series:

-

Technology:

Standard

Current - Average Rectified (Io):

8A

Speed:

Fast Recovery =< 500ns, > 200mA (Io)

Current - Reverse Leakage @ Vr:

5 μ A @ 400 V

Mounting Type:

Through Hole

Supplier Device Package:

TO-220AC

Base Product Number:

MUR840

Manufacturer:

Micro Commercial Co

Product Status:

Active

Voltage - DC Reverse (Vr) (Max):

400 V

Voltage - Forward (Vf) (Max) @ If:

1.3 V @ 8 A

Reverse Recovery Time (trr):

50 ns

Capacitance @ Vr, F:

-

Package / Case:

TO-220-2

Operating Temperature - Junction:

-55°C ~ 150°C

Environmental & Export classification

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0080

ECCN:

EAR99

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 2.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR805	MUR805	50V	35V	50V
MUR810	MUR810	100V	70V	100V
MUR820	MUR820	200V	140V	200V
MUR840	MUR840	400V	280V	400V
MUR860	MUR860	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8.0A	$T_C=90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	125A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	MUR805-MUR820 0.975V MUR840 1.3V MUR860 1.5V	$I_{FM}=8A$; $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA 500 μA	$T_J=25^\circ\text{C}$; $T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time	T_{RR}	MUR805-MUR820 35ns MUR840-MUR860 50ns	$I_F=0.5A$; $I_R=1.0A$; $I_{rr}=0.25A$

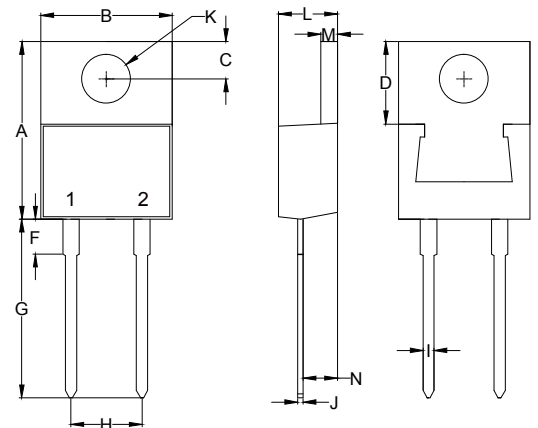
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure



8 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

TO-220AC



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.560	0.625	14.22	15.88	
B	0.380	0.420	9.65	10.67	
C	0.100	0.135	2.54	3.43	
D	0.230	0.270	5.84	6.86	
F	-----	0.250	-----	6.35	
G	0.500	0.580	12.70	14.73	
H	0.190	0.210	4.83	5.33	
I	0.020	0.045	0.51	1.14	
J	0.012	0.025	0.30	0.64	
K	0.139	0.161	3.53	4.09	Φ
L	0.140	0.190	3.56	4.83	
M	0.045	0.055	1.14	1.40	
N	0.080	0.115	2.03	2.92	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

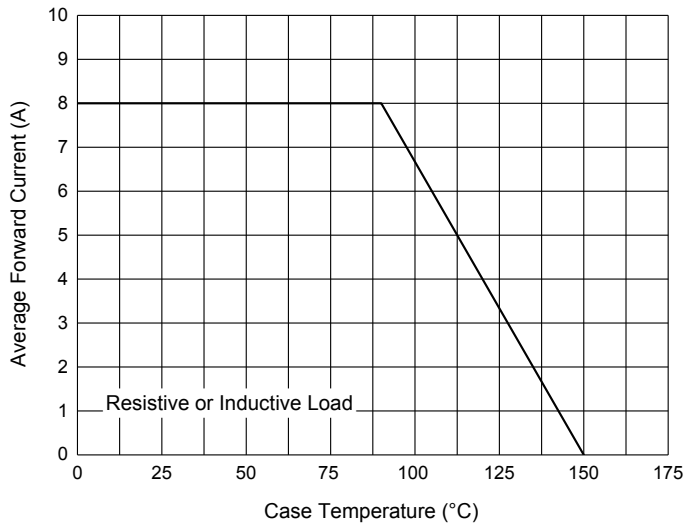


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

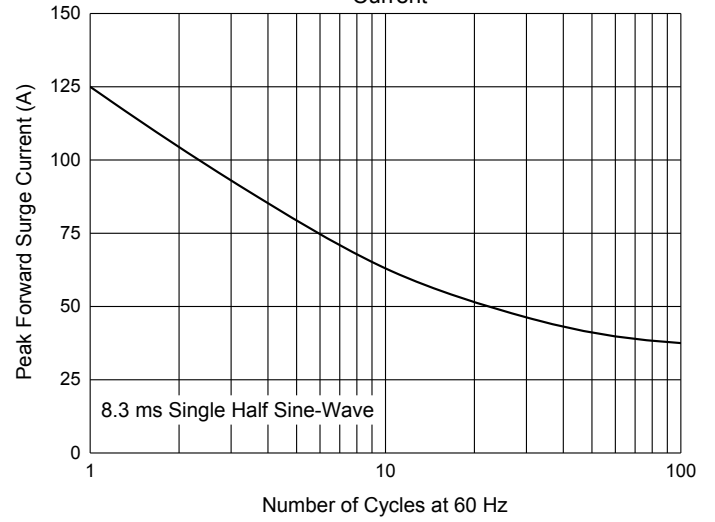


Fig. 3 - Typical Instantaneous Forward Characteristics

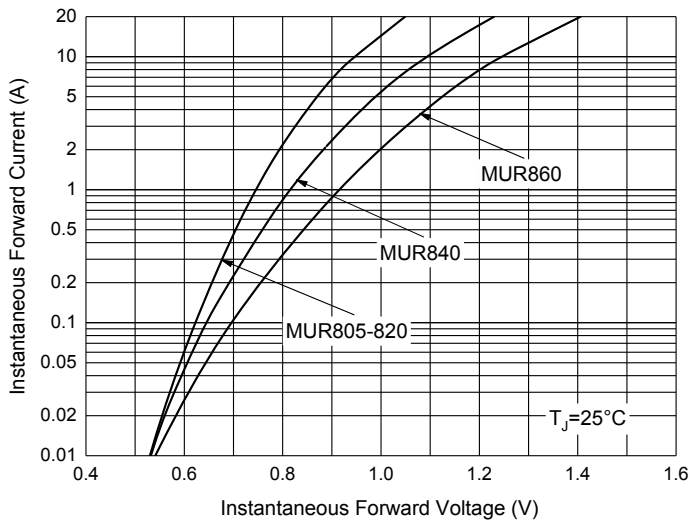
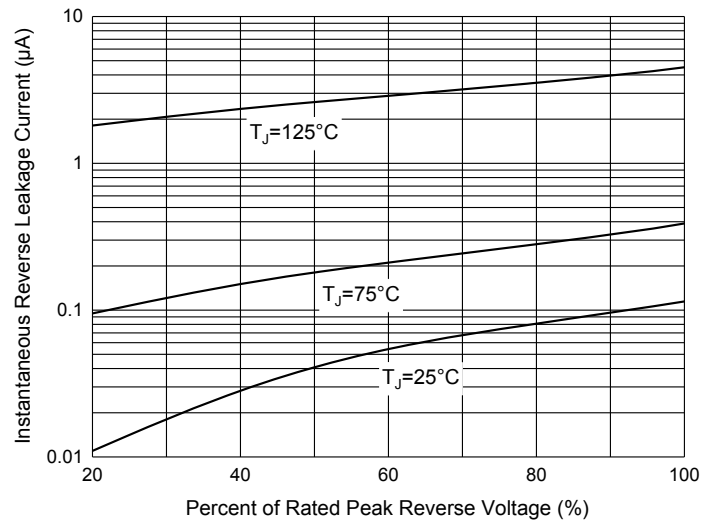


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:50pcs/Tube, 1Kpcs/Box, 5Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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