



Micro Commercial Components  
 21201 Itasca Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# DR750 THRU DR7510

## 6 Amp Glass Passivated Rectifier 50 - 1000 Volts

### Features

- Low Cost
- High Current Capability
- High Surge Current Capability
- Low Leakage

### Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Ambient

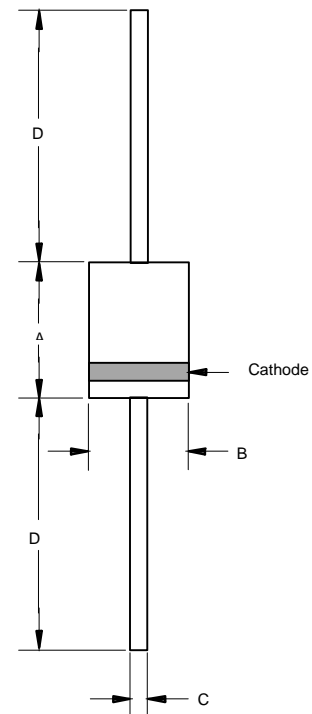
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DR750	---	50V	35V	50V
DR751	---	100V	70V	100V
DR752	---	200V	140V	200V
DR754	---	400V	280V	400V
DR756	---	600V	420V	600V
DR758	---	800V	560V	800V
DR7510	---	1000V	700V	1000V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 60^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_{FM} = 6.0\text{A}; T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10µA 1mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	$C_J$	100pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

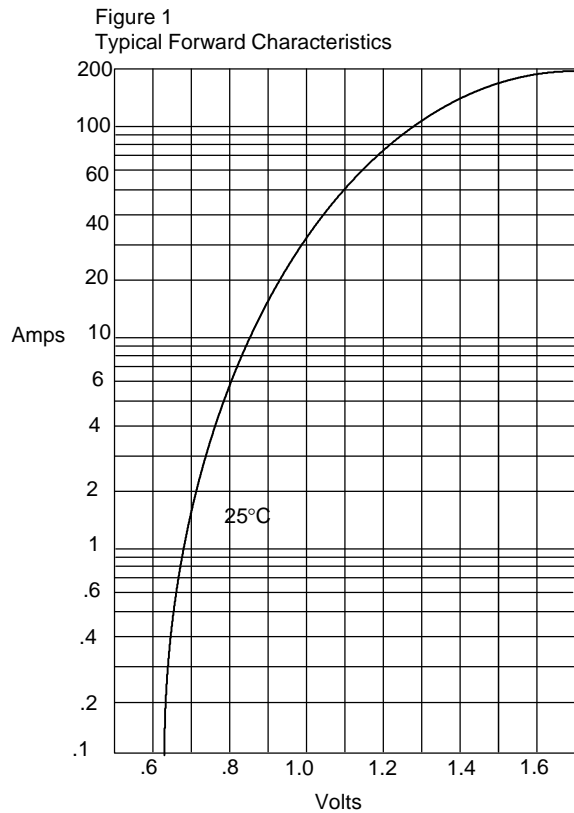
\*Pulse test: Pulse width 300 µsec, Duty cycle 1%

### R-6

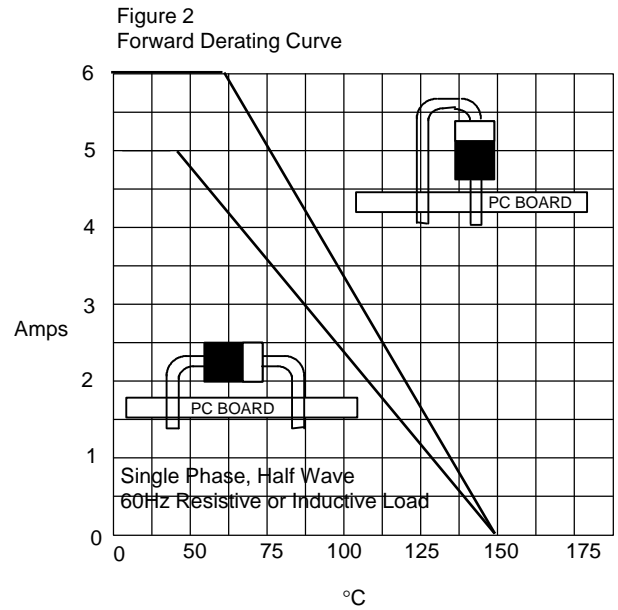


DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.340	.360	8.60	9.10	
B	.340	.360	8.60	9.10	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

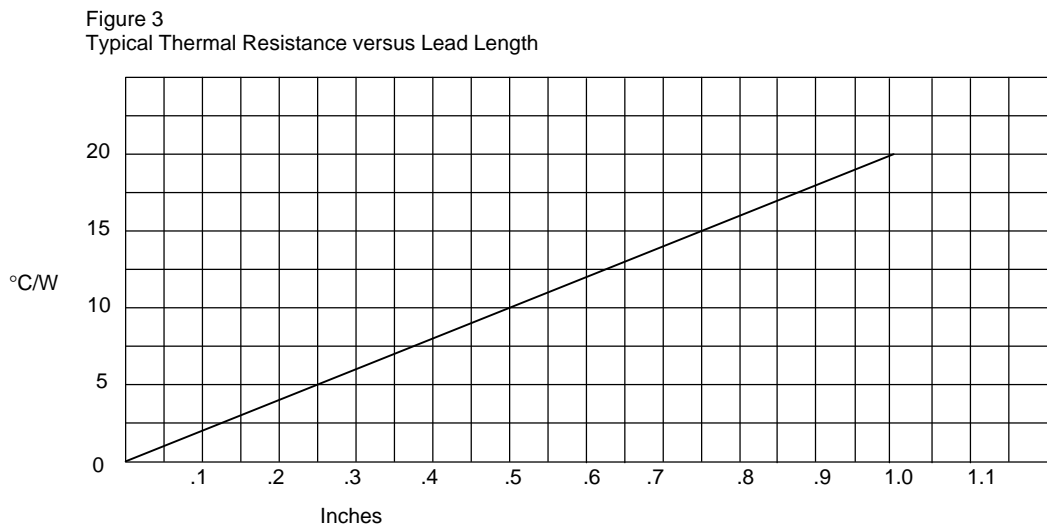
# DR750 thru DR7510



Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C



Thermal Resistance - °C/W versus  
Equal Lead Length To Heat Sink - Inches

# DR750 thru DR7510

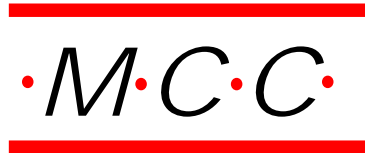
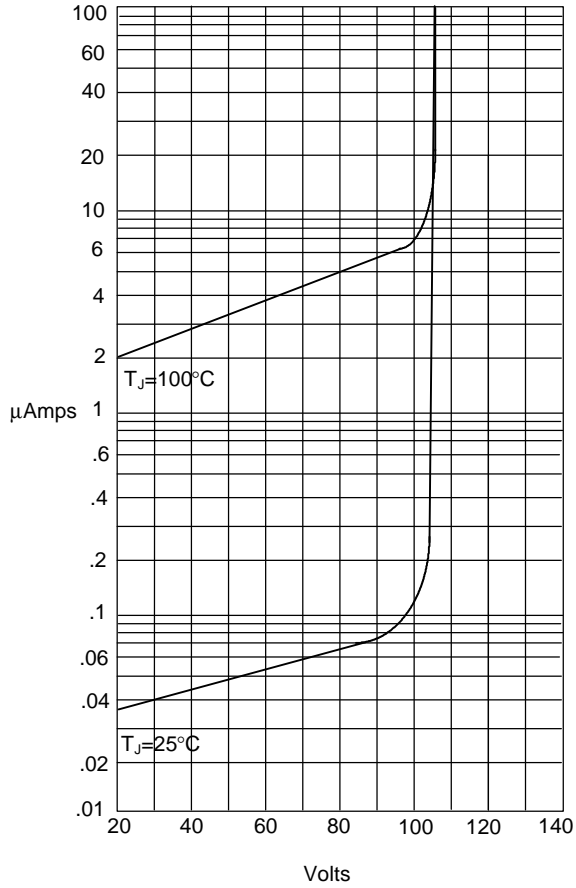
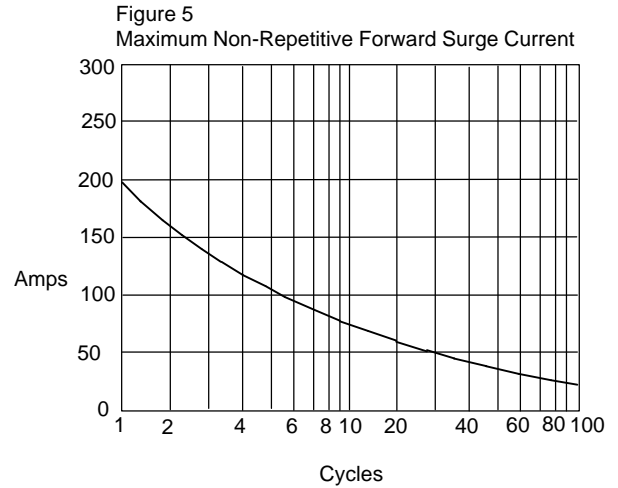


Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperes versus  
Number Of Cycles At 60Hz - Cycles