

DLSR105 thru DLSR110

Features

- Schottky Barrier Rectifier
- Low Forward Voltage
- Low Power Loss For High Efficiency
- High Current Capability

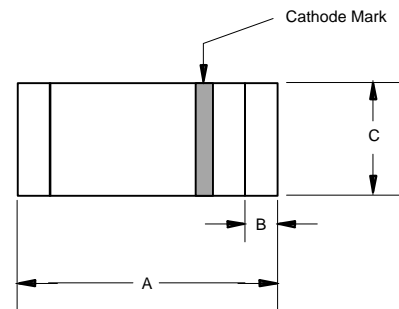
1 Amp Schottky Barrier Rectifier 50 - 100 Volts

Maximum Ratings

- Operating Temperature: -65°C to +125°C
- Storage Temperature: -65°C to +175°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DLSR105	---	50V	35V	50V
DLSR106	---	60V	42V	60V
DLSR108	---	80V	56V	80V
DLSR1010	---	100V	70V	100V

MELF



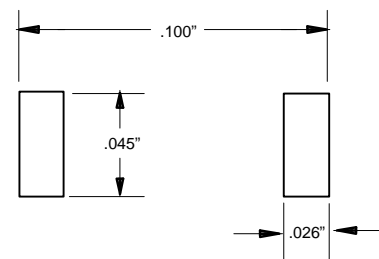
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.190	.205	4.80	5.20	
B	---	.022	---	.55	Nominal
C	.095	.099	2.40	2.50	∅

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 75^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage DLSR105-DLSR106 DLSR108- DLSR1010	V_F	.70V .80V	$I_{FM} = 1.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5mA 10mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

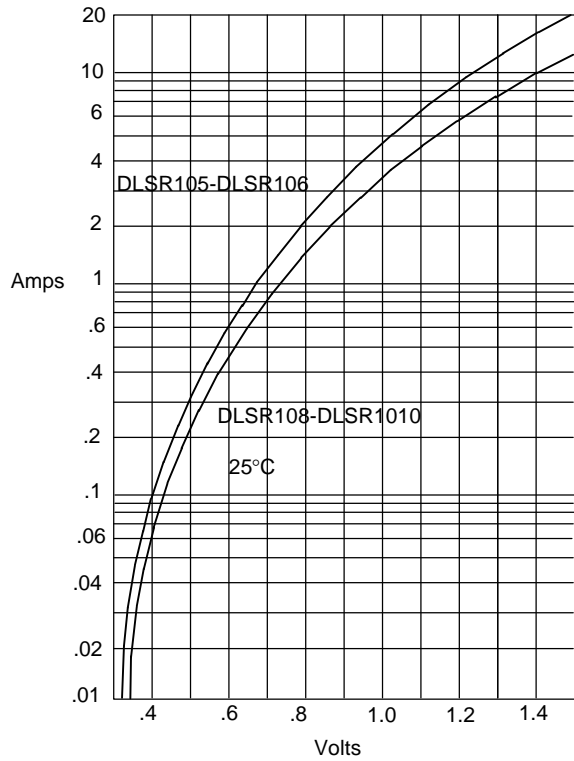
*Pulse test: Pulse width 300 μsec , Duty cycle 2%

SUGGESTED SOLDER PAD LAYOUT



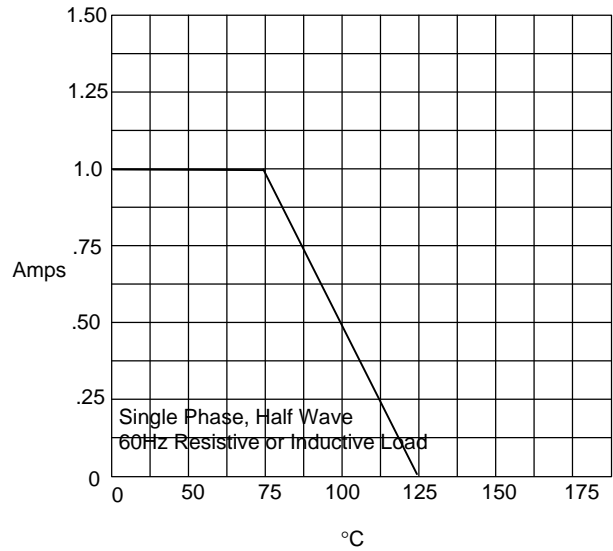
DLSR105 thru DLSR1010

Figure 1
Typical Forward Characteristics



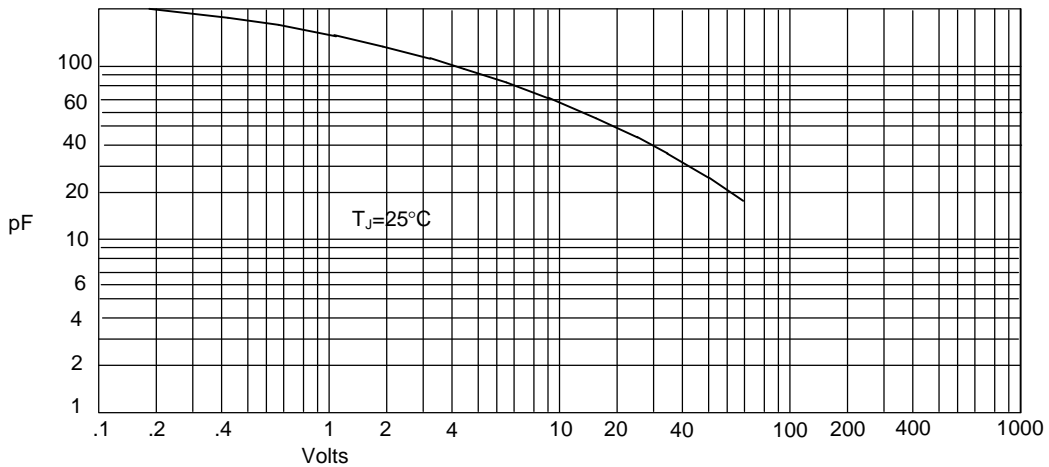
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

DLSR105 thru DLSR1010

Figure 4
Typical Reverse Characteristics

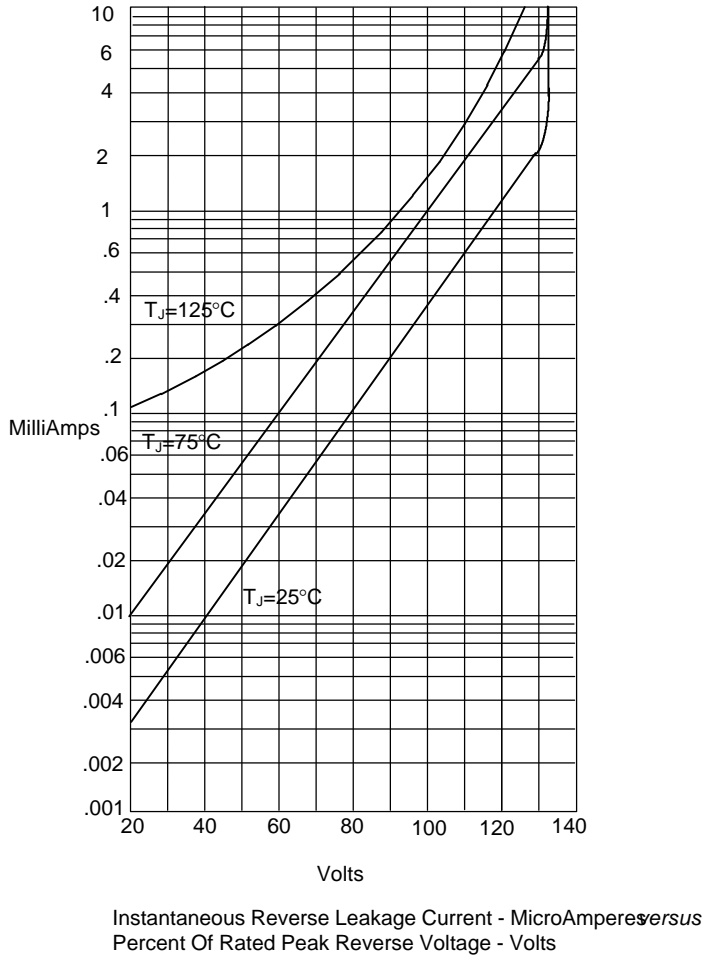


Figure 5
Peak Forward Surge Current

