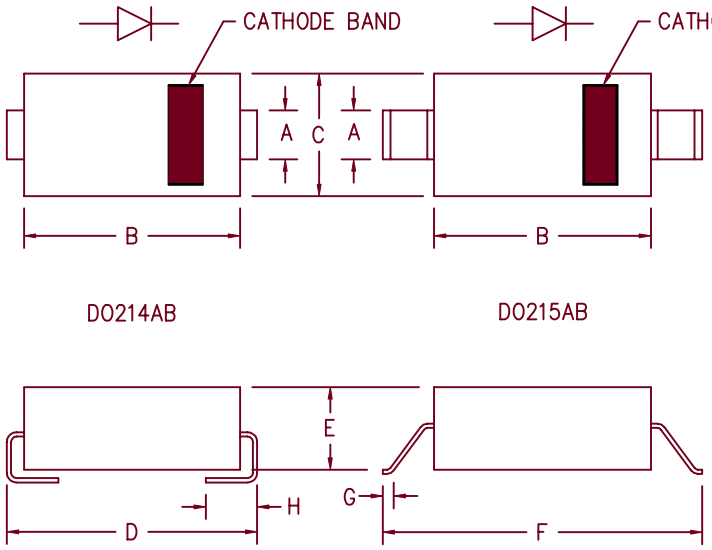
5 Amp Schottky Rectifier

LSM535 – LSM545



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.117	.123	2.97	3.12	
B	.260	.280	6.60	7.11	
C	.220	.245	5.59	6.22	
D	.307	.322	7.80	8.18	
E	.075	.095	1.91	2.41	
F	.380	.400	9.65	10.16	
G	.025	.040	.640	1.02	
H	.030	.060	.760	1.52	

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
LSM535*	SK52L, B520C SK53L, B530C	35V	35V
LSM540*	SK54L, B540C	40V	40V
LSM545*	SK545L	45V	45V

* Add Suffix J for J Lead or G for Gull Wing Lead Configuration

- Schottky Barrier Rectifier
- Guard Ring for Reverse Protection
- Low power loss, High efficiency
- V_{RRM} 35 to 45 Volts
- Reverse Energy Tested

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 5 Amps	Square wave
Maximum surge current	I_{FSM} 250 Amps	8.3ms, half sine, T_J = 150°C
Max peak forward voltage	V_{FM} .42 Volts	I_{FM} = 5A; T_J = 150°C*
Max peak forward voltage	V_{FM} .52 Volts	I_{FM} = 5A; T_J = 25°C*
Max peak reverse current	I_{RM} 500 mA	V_{RRM}, T_J = 125°C*
Max peak reverse current	I_{RM} 2 mA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 380 pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	−55°C to 175°C
Operating junction temp range	T_J	−55°C to 150°C
Maximum thermal resistance	$R_{\Theta JL}$	22°C Junction to lead
Weight		.008 ounces (.22 grams) typical

1–10–02 Rev. 3

COLORADO Microsemi
800 Hoyt Street
Broomfield, CO. 80020
PH: (303) 469–2161
FAX: (303) 466–3775
www.microsemi.com

LSM535 – LSM545

Figure 1
Typical Forward Characteristics

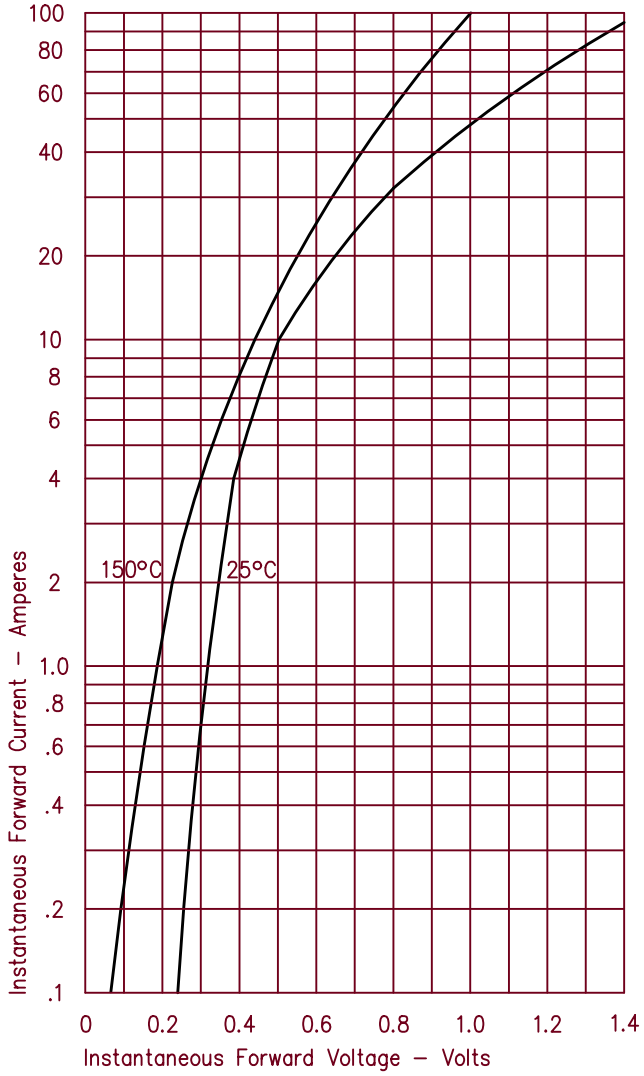


Figure 2
Typical Reverse Characteristics

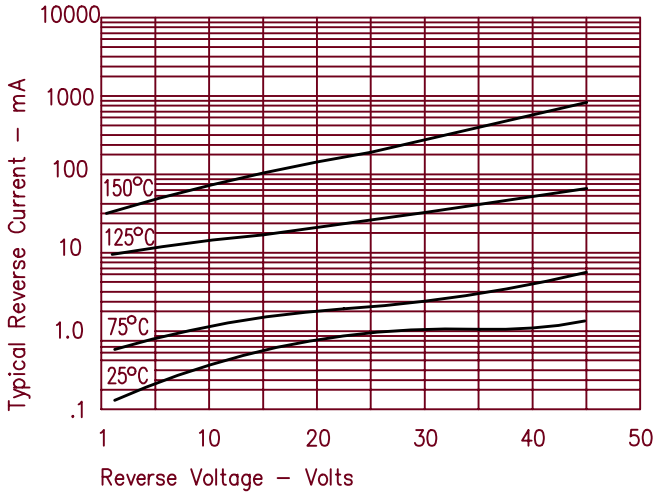
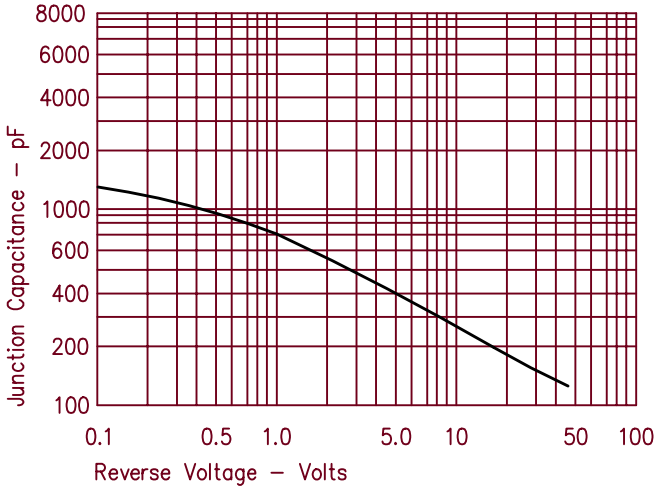


Figure 3
Typical Junction Capacitance



littlediode
COMPONENTS FOR ALL

Littlediode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.