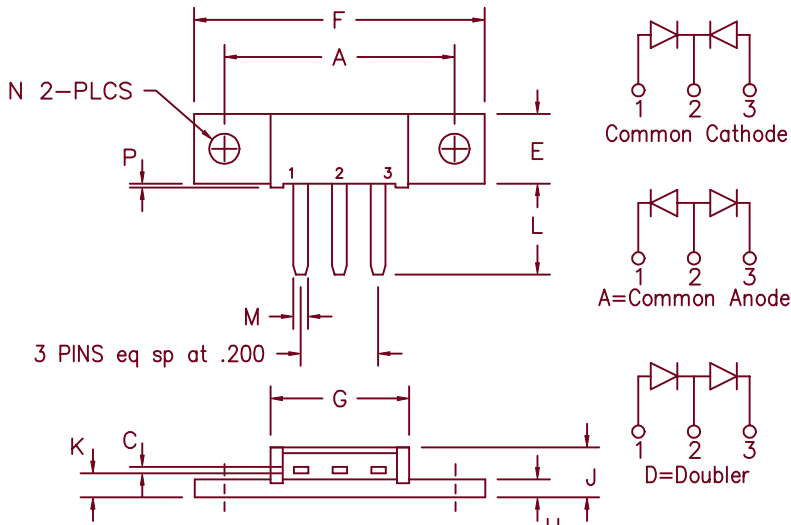


Schottky Or'ing Diode FST6210 — FST6220



Note: Baseplate Common with Pin 2

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	1.180	1.195	29.97	30.35	
C	.027	.037	0.69	0.94	
E	.350	.370	8.89	9.40	
F	1.490	1.510	37.85	38.35	
G	.695	.715	17.65	18.16	
H	.088	.098	2.24	2.49	
J	.240	.260	6.10	6.60	
K	.115	.135	2.92	3.43	
L	.460	.480	11.68	12.19	
M	.065	.085	1.65	2.16	
N	.151	.161	3.84	4.09	Dia.
P	.015	.025	0.38	0.64	

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
FST6210	10V	10V
FST6215	15V	15V
FST6220	20V	20V

*Add the Suffix A for Common Anode, D for Doubler

- Schottky Barrier Rectifier
- Guard ring protection
- Low forward voltage
- 2X30 Amperes avg.
- 125°C Junction temperature
- Reverse energy tested

Electrical Characteristics

Average forward current per pkg	I _{F(AV)} 60 Amps	T _C = 109°C, Square wave, R _{θJC} = 0.6°C/W
Average forward current per leg	I _{F(AV)} 30 Amps	T _C = 109°C, Square wave, R _{θJC} = 1.2°C/W
Maximum surge current per leg	I _{FSM} 600 Amps	8.3 ms, half sine, T _J = 150°C
Max repetitive peak reverse current per leg	I _{R(OV)} 2 Amps	f = 1 KHZ, 25°C, 1 μsec square wave
Max peak forward voltage per leg	V _{FM} .31 Volts	I _{FM} = 30A: T _J = 125°C
Max peak forward voltage per leg	V _{FM} .43 Volts	I _{FM} = 30A: T _J = 25°C *
Max peak reverse current per leg	I _{RM} 500 mA	V _{RRM} , T _J = 125°C*
Max peak reverse current per leg	I _{RM} 5 mA	V _{RRM} , T _J = 25°C
Typical junction capacitance per leg	C _J 6000 pF	V _R = 5.0V, T _C = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 125°C
Max thermal resistance per leg	R _{θJC}	1.2°C/W Junction to case
Max thermal resistance per pkg	R _{θJC}	0.6°C/W Junction to case
Typical thermal resistance (greased)	R _{θCS}	0.3°C/W Case to sink
Mounting Base Torque		10 inch pounds maximum
Weight		0.3 ounce (8.4 grams) typical

FST6210 — FST6220

Figure 1
Typical Forward Characteristics — Per Leg

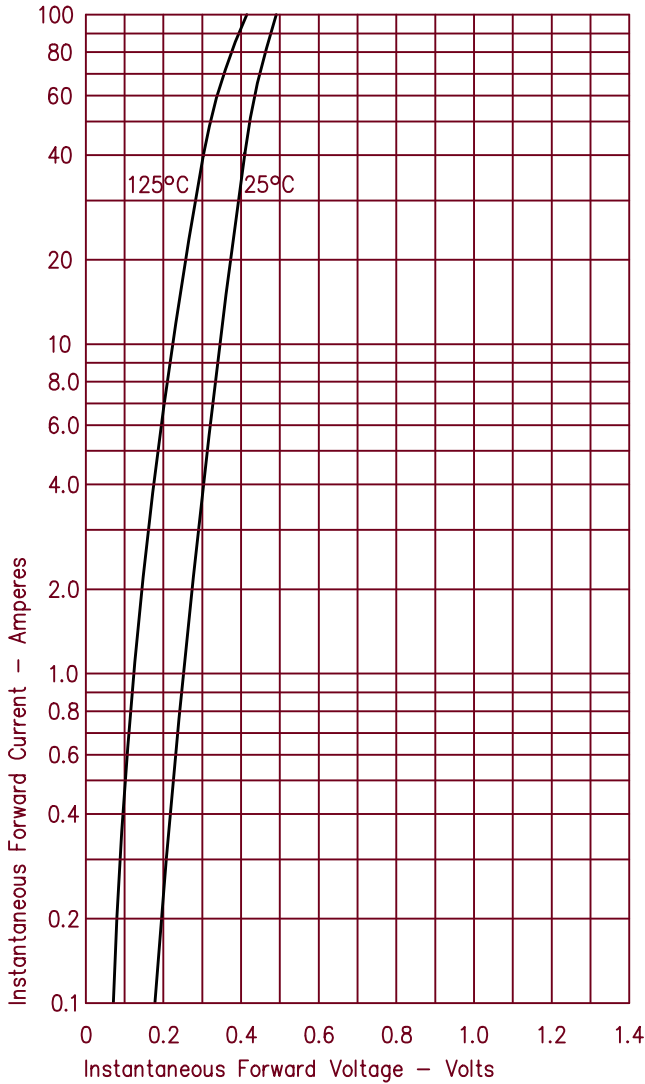


Figure 3
Typical Junction Capacitance — Per Leg

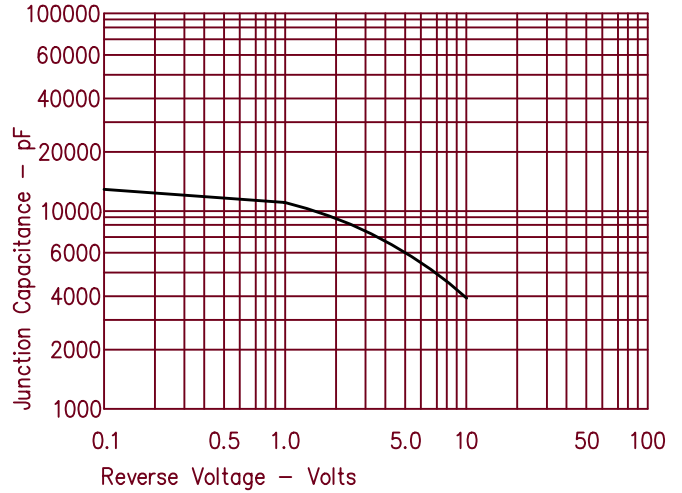


Figure 4
Forward Current Derating — Per Leg

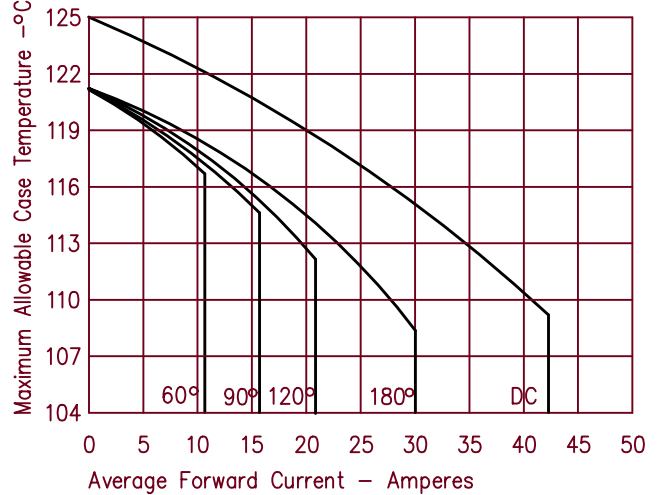


Figure 2
Typical Reverse Characteristics — Per Leg

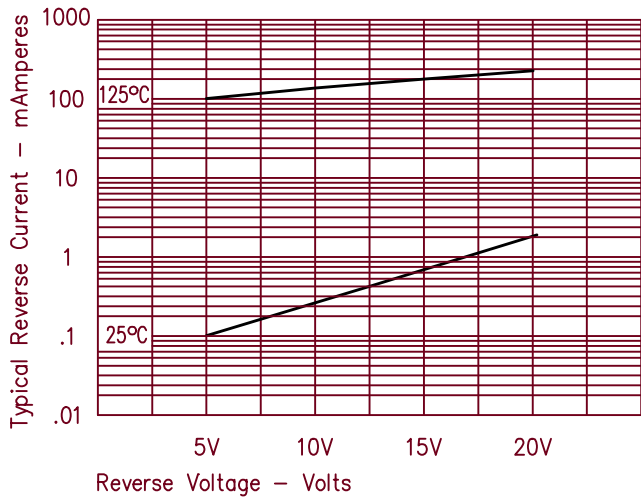
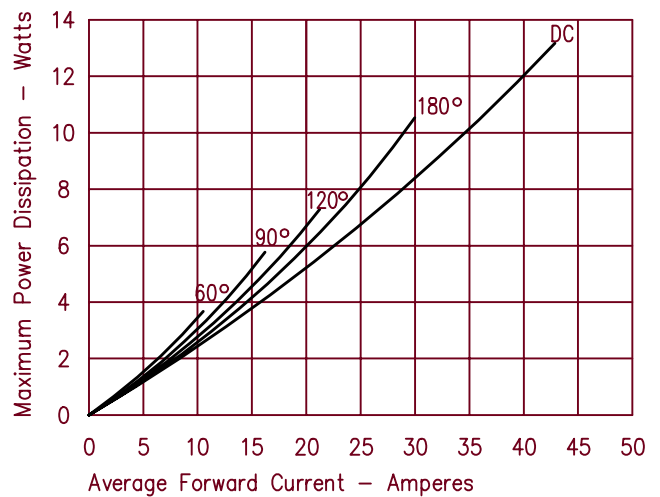


Figure 5
Maximum Forward Power Dissipation — Per Leg





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.