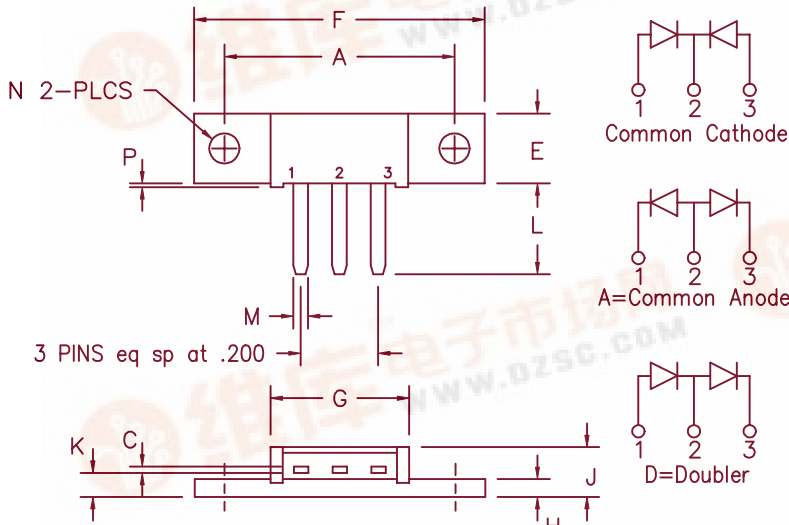


FST6210 — FST6220



Note: Baseplate Common with Pin 2

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

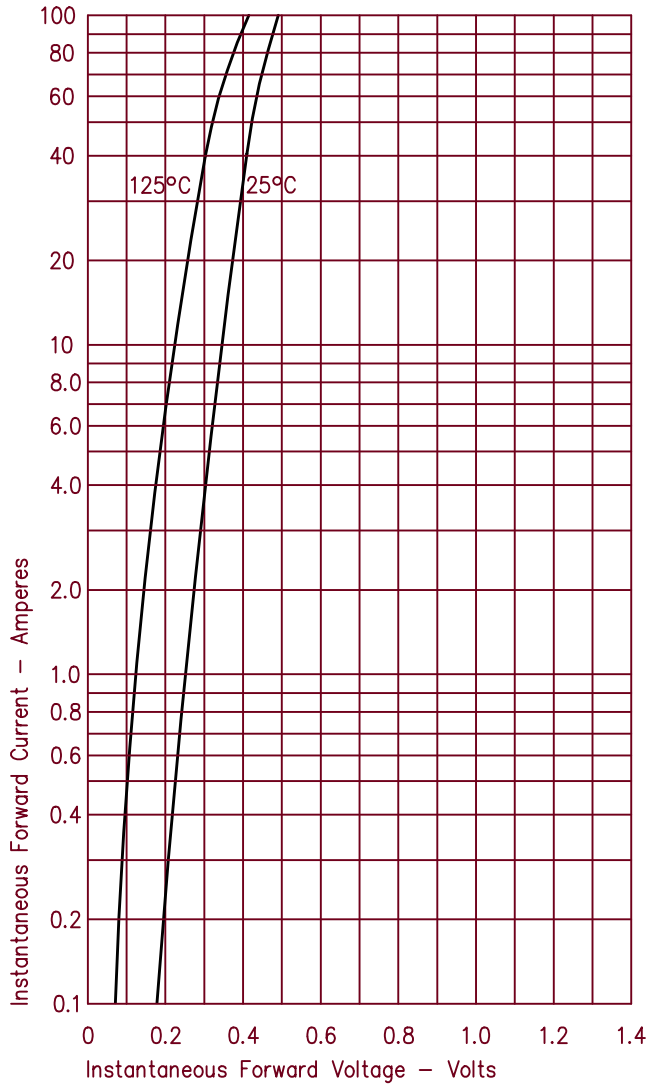


Figure 2
Typical Reverse Characteristics — Per Leg

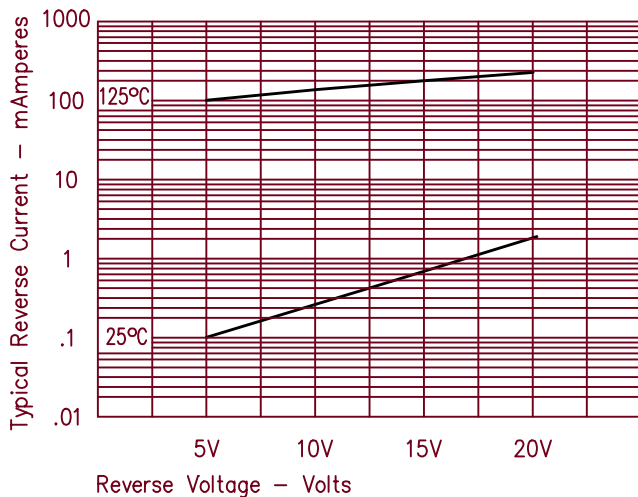


Figure 3
Typical Junction Capacitance — Per Leg

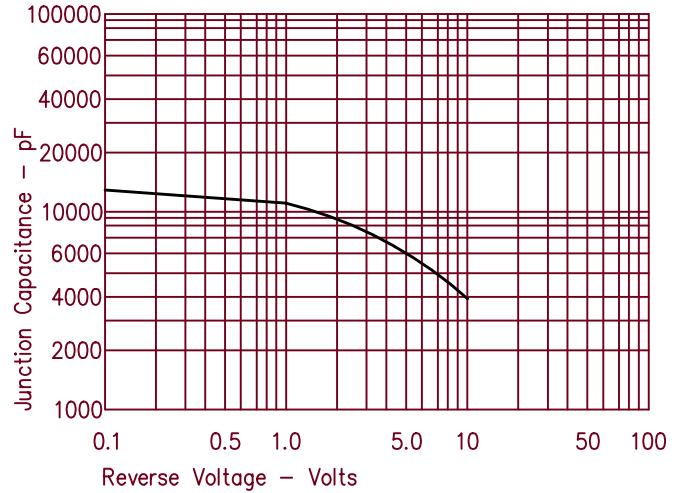


Figure 4
Forward Current Derating — Per Leg

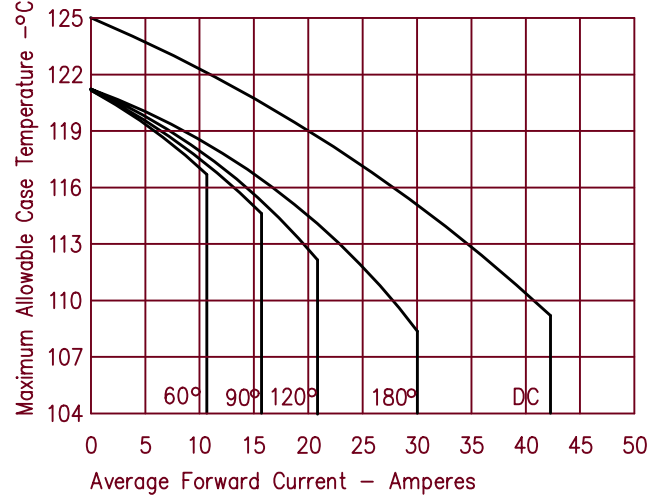


Figure 5
Maximum Forward Power Dissipation — Per Leg

