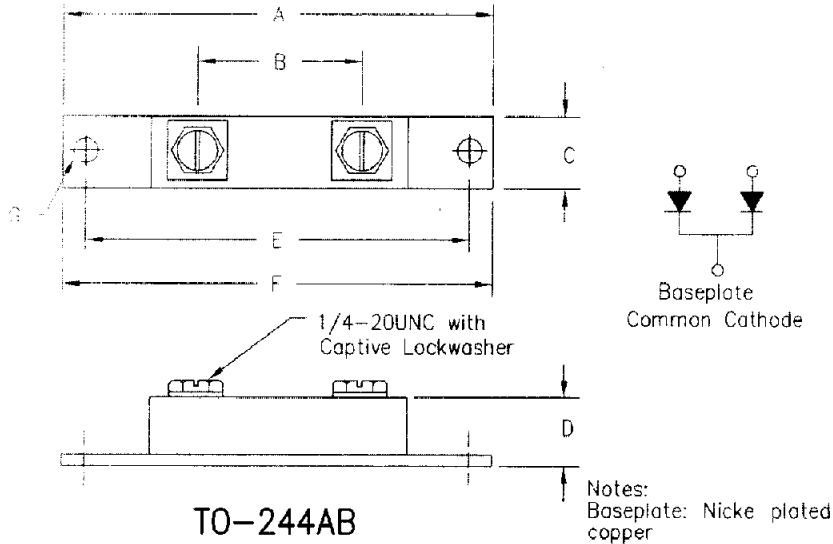


Schottky PowerMod

1N6459 — 1N6460



Dim.	Inches		Millimeters		Notes
	Min.	Max.	Min.	Max.	
A	---	2.450	---	62.23	
B	1.350	1.400	34.29	35.56	
C	0.700	0.800	17.78	20.32	
D	---	0.625	---	15.88	
E	3.140	3.160	79.76	80.26	
F	---	3.650	---	92.71	
G	0.280	0.300	7.140	7.670	Dia.

	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N6459	40V	40V
1N6460	50V	50V

*Add Suffix A for Common Anode, D for Doubler

- Schottky Barrier Rectifier
- Guard Ring Protection
- Common Cathode Center Tap
- 200 Amperes/40 to 50 Volts
- 175°C Junction Temperature
- Reverse Energy Tested

Electrical Characteristics

Average forward current per pkg	IF(AV) 200 Amps	TC = 143°C, Square wave, RθJC = 0.25°C/W
Average forward current per leg	IF(AV) 100 Amps	TC = 143°C, Square wave, RθJC = 0.50°C/W
Maximum surge current per leg	IFSM 2000 Amps	8.3ms, half sine, TJ = 175°C
Maximum repetitive reverse current per leg	IR(OV) 2 Amps	f = 1 KHZ, 25°C, 1 usec square wave
Max peak forward voltage per leg	VFM 0.80 Volts	IFM = 200A; TJ = 25°C*
Max peak forward voltage per leg	VFM 0.60 Volts	IFM = 200A; TJ = 175°C*
Max peak reverse current per leg	IRM 75 mA	VRRM, TJ = 125°C*
Max peak reverse current per leg	IRM 4.0 mA	VRRM, TJ = 25°C
Typical junction capacitance per leg	CJ 4600 pF	VR = 5.0v, TC = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range	TSTG	-55°C to 175°C
Operating junction temp range	TJ	-55°C to 175°C
Max thermal resistance per pkg	RθJC	0.25°C/W Junction to case
Max thermal resistance per leg	RθJC	0.5°C/W Junction to case
Typical thermal resistance (greased)	RθCS	0.08°C/W Case to sink
Terminal Torque		35-50 inch pounds
Mounting Base Torque		30-40 inch pounds
Weight		3.4 ounces (95 grams) typical