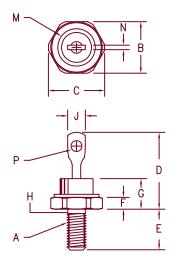
25 Amp Schottky Rectifiers 1N5829 - 1N5831



Notes:

- 1. 10-32 UNF3A threads
- 2. Full threads within 2 1/2 threads Standard Polarity: Stud is Cathode

Dim. Inches					
	Minimum	Maximum	Minimum	Maximum	Notes
A B C D E F G H J M Z P	.424 .600 .422 .075 .163 .020	.437 .505 .800 .453 .175 .405 .189 .250 .350 .065	10.77 15.24 10.72 1.91 4.15 .510 1.53	11.10 12.82 20.32 11.50 4.44 10.29 4.80 6.35 8.89 1.65 2.54	1 2 Dia. Dia.

D0203AA (D04)

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N5829	20V	20V
1N5830	30V	30V
1N5831	40V	40V

- Schottky Barrier Rectifier
- Guard ring protection
- Low forward voltage drop
- 25 Amperes
- 125°C Junction Temperature
- VRRM 20 to 40 volts

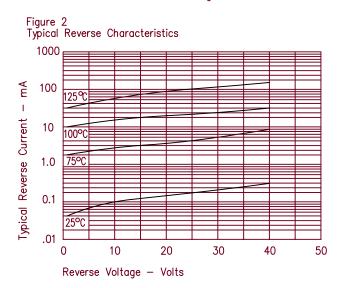
		Electrical	Charac	teristics	
Average forward current Maximum surge current Max peak forward voltage Max peak forward voltage Max peak forward voltage Max peak reverse current Max peak reverse current Typical junction capacitance	F(AV) FSM VFM VFM FM FM FRM RM CJ	1N5829 25A 800A .360V .440V .720V 150mA 3.0mA 1650pF	1N5830 25A 800A .370V .460V .770V 150mA 3.0mA 1650pF	1N5831 25A 800A .380V .480V .820V 150mA 3.0mA 1650pF	TC = 97°C, square wave, ROJC = 1.75°C/W 8.3ms, half sine, TJ = 125°C IFM = 10A: TJ = 25°C* IFM = 25A: TJ = 25°C* IFM = 78.5A: TJ = 25°C* VRRM, TJ = 100°C VRRM, TJ = 25°C TJ = 25°C, VR = 5V, f = 1MHz
	*Pulse tes	st: Pulse wid	th 300 <i>j</i> use	c, Duty cycle	2%

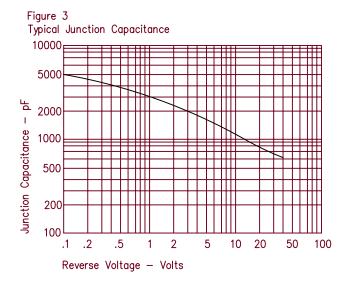
Therm	al and Mechanical Chara	cteristics
Storage temperature range Operating junction temp range Maximum thermal resistance Typical thermal resistance Mounting torque Weight	TSTG TJ ROJC ROJS	-65°C to 125°C -65°C to 125°C 1.75°C/W junction to case 0.5°C/W junction to sink 15 inch pounds maximum 6 grams (.02 ounces) typical

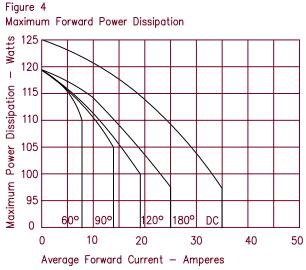


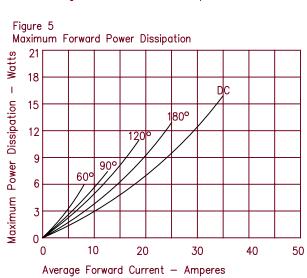
1N5829-1N5831

Figure 1 Typical Forward Characteristics 800 600 400 200 100 80 60 40 Instantaneous Forward Current - Amperes 20 10 8 6 4 2 0 .2 .4 .6 .8 1.0 1.2 1.4 Instantaneous Forward Voltage - Volts









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1N5830 1N5831 1N5829