

Micro Commercial Components 21201 Itasca Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

1N5812 thru 1N5816

Features

Full threads eithin 2 1/2 threads

• Standard Polarity: Stud is Cathode

20 Amp Ultra Fast Recovery Rectifier 50 to 150 Volts

Maximum Ratings

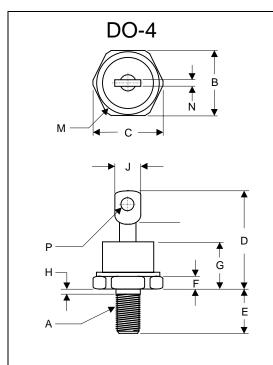
Operating Junction Temperature: -65°C to +175°C

• Storage Temperature: -65°C to +175°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5812	50V	35V	50V
1N5813	75V	52.5V	75V
1N5814	100V	70V	100V
1N5815	125V	87.5V	125V
1N5816	150V	105V	150V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20 A	$T_C = 100^{\circ}C$
Peak Forward Surge Current	I _{FSM}	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	.89V .97V	$I_{FM} = 10A ; T_j = 25^{\circ}C$ $I_{FM} = 20 A ; T_j = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10uA 1mA	T _j = 25°C T _j = 100°C
Maximum Reverse Recovery Time	T _{rr}	45nS	IF=IR=1.0A dc I _(REC) = 0.1A di / dt = 85 A / uS

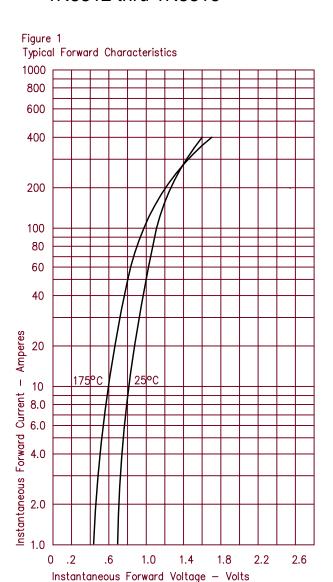


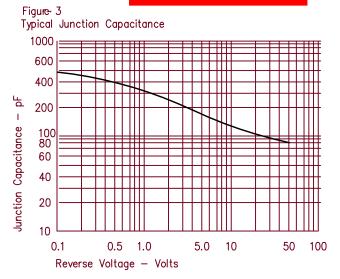
DIMENSIONS								
	INCH ES		ММ					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	10-32 UN	F3A Threa	ids Stand	dard Polarity	•			
В	.424	.437	10.77	11.10				
С		.505		12.82				
D	.600	.800	15.24	20.32				
Е	.422	.453	10.72	11.50				
F	.075	.175	1.91	4.44				
G		.405		10.29				
I	.163	.189	4.15	4.80				
J		.310		7.87				
М		.350		8.89	Ø			
N	.020	.065	0.51	1.65				
Р	.060	.100	1.53	2.54	Ø			

^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

1N5812 thru 1N5816







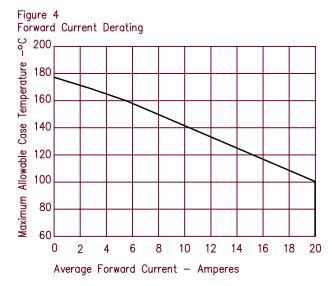


Figure 2 Typical Reverse Characteristics

