



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 EM513 THRU EM518

Features

- High reverse voltage
- Low reverse leakage
- High forward surge current capability.
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix designates Compliant. See ordering information)
- Weight: 0.012 ounce, 0.33grams
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Operating 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
EM513	1600V	1120V	1600V
EM516	1800V	1260V	1800V
EM518	2000V	1400V	2000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

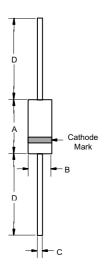
Average Forward Current	I _O	1.0A	.375" (9.5mm) Lead LengthT _A = 55° C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage EM513~EM516 EM518	V _F	1.1V 1.2V	I _{FM} = 1.0A; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	$T_J = 25^{\circ}C$ $T_J = 100^{\circ}C$
Typical Junction Capacitance	C _J	15pF	Measured at 1.0MHz, V _R =4.0V
Typical Thermal Resistance	R_{thja}	50℃/W	(Note 1)

Note 1:Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, P.C. board mounted.

2: High Temperature Solder Exemption Applied, see EU Directive Annex 7.

1.0 Amp General Purpose Plastic Rectifier 1600 to 2000 Volts

DO-41



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1 000		25.40			



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FIG.1-TYPICAL FORWARD CURRENT

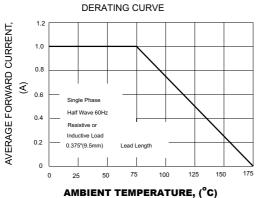


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

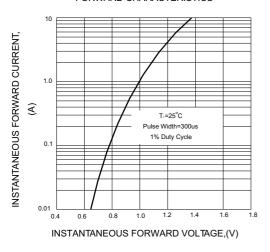


FIG.5-TYPICAL JUNCTION CAPACITANCE

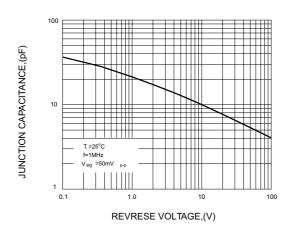


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

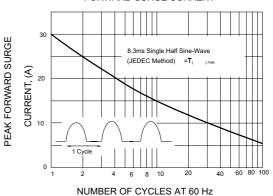
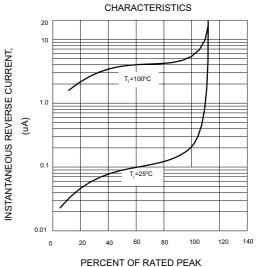


FIG.4-TYPICAL REVERSE



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)



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Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel 5Kpcs/Reel	
Part Number-AP	Ammo Packing;5Kpcs/AmmoBox	
Part Number-BP	Bulk: 50Kpcs/Carton	

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