

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- High reverse voltage
- Low reverse leakage
- High forward surge current capability.
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix designates Compliant. See ordering information)
- Glass passivated chip for high reliability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -65℃ to +150℃
- Storage Temperature: -65℃ to +150℃

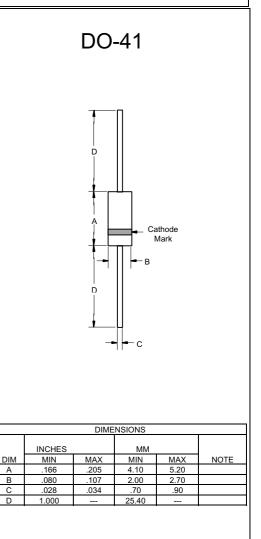
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
EM513GP	1600V	1120V	1600V
EM516GP	1800V	1260V	1800V
EM518GP	2000V	1400V	2000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

			=
Average Forward Current	Ι _Ο	1.0A	.375" (9.5mm) Lead LengthT _A = 55°C
Peak Forward Surge Current	I _{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.25V	I _{FM} = 1.0A; T _J = 25℃
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」	15pF	Measured at 1.0MHz, V _R =4.0V
Typical Thermal Resistance	$R_{th_{ja}}$	50 ℃/W	(Note 1)

EM513GP THRU EM518GP

1.0 Amp General Purpose Plastic Rectifier 1600 to 2000 Volts



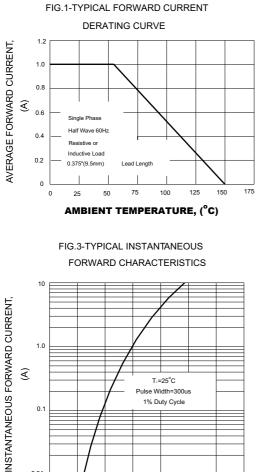
Note 1:Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, P.C. board mounted.

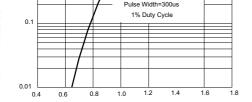
2: High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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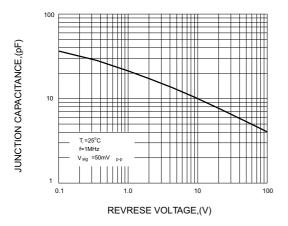
EM513GP THRU EM518GP

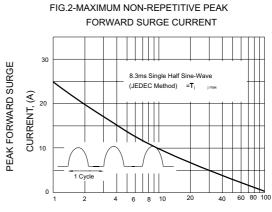




INSTANTANEOUS FORWARD VOLTAGE,(V)

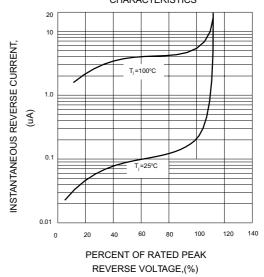
FIG.5-TYPICAL JUNCTION CAPACITANCE





NUMBER OF CYCLES AT 60 Hz

FIG.4-TYPICAL REVERSE CHARACTERISTICS



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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	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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