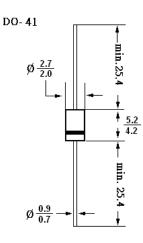
EM513, EM516, EM518

SILICON RECTIFIERS Reverse Voltage – 1600 to 2000 Volts Forward Current – 1.0 Ampere

Features

• Plastic case in DO-41 package.





	Symbols	EM 513	EM 516	EM 518	Units
Maximum repetitive peak reverse voltage	V _{RRM}	1600	1800	2000	V
Maximum RMS voltage	V _{RMS}	1120	1260	1400	V
Maximum DC blocking voltage	V _{DC}	1600	1800	2000	V
Maximum average forward rectified current , .375"(9.5mm) lead length T_{A} =75 $^\circ\!\!\!\!\!\mathrm{C}$	I _{FAV}	1			A
Peak forward surge current , 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30			A
Maximum forward voltage at $I_F = 1.0A DC$ $T_J = 25^{\circ}C$	V _F	1.1			V
Maximum leakage current at $T_A = 25 ^{\circ}C$ at rated DC blocking voltage at $T_A = 100 ^{\circ}C$	I _R	5 500			μΑ μΑ
Typical junction capacitance (Note 1)	CJ	15			pF
Typical thermal resistance (Note 2)	R _{thA}	50			K/W
Operating and storage temperature range	T _J ,T _{Stg}	-55 to +150			°C

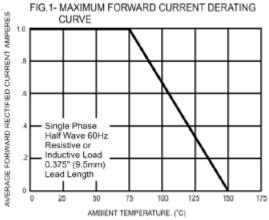
Absolute Maximum Ratings ($T_a = 25^{\circ}C$)

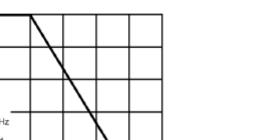
Note : 1. Measured at 1MHz and applied reverse voltage of 4.0VDC.

2. Thermal resistance junction to ambient 0.375"(9.5mm) lead length P.C.B. mounted.



EM513, EM516, EM518







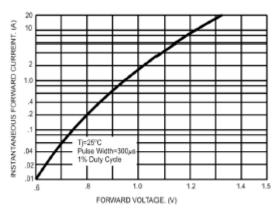


FIG.4- TYPICAL JUNCTION CAPACITANCE

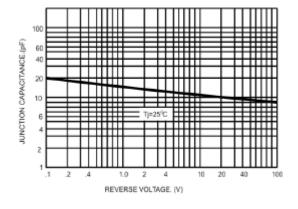


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

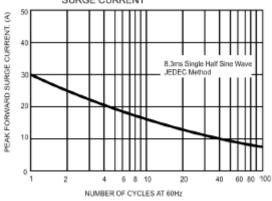


FIG.5- TYPICAL REVERSE CHARACTERISTICS

