

Features

Low profile package
Ideal for automated placement
Guardring for overvoltage protection
Low power losses, high efficiency
High forward surge capability
Compliant with RoHS standards, halogen-free

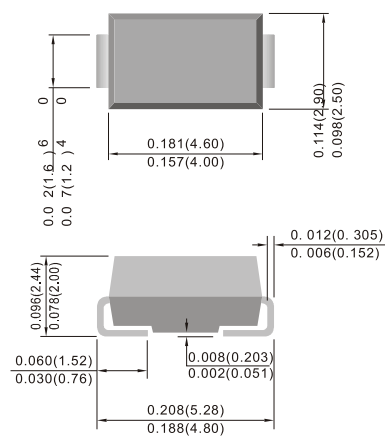
Mechanical Data

Package: SMA/DO-214AC

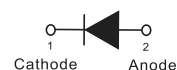
Terminal: Tin plated leads, solderable per

Polarity: Cathode line denotes the cathode end

SMA/DO-214AC



Unit : inch mm



Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Unit	PMEG3030EP,115-CN
Repetitive peak reverse voltage	V _{RRM}	V	40
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I _O	A	3.0
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	70
Storage temperature	T _{stg}	°C	-55 ~+150
Junction temperature	T _j	°C	-55 ~+150

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Unit	Test Conditions	PMEG3030EP,115-CN
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =3.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode@ V _{RM} =V _{RRM}	I _{RRM}	mA	T _a =25°C	0.50
			T _a =100°C	10

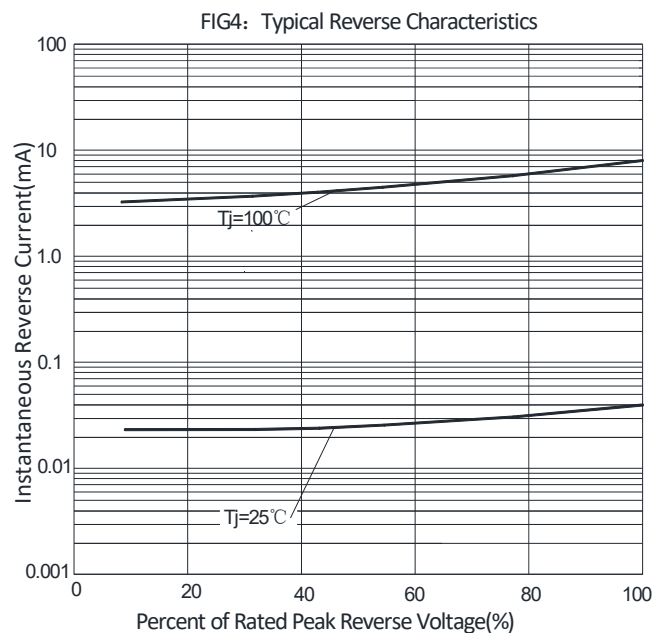
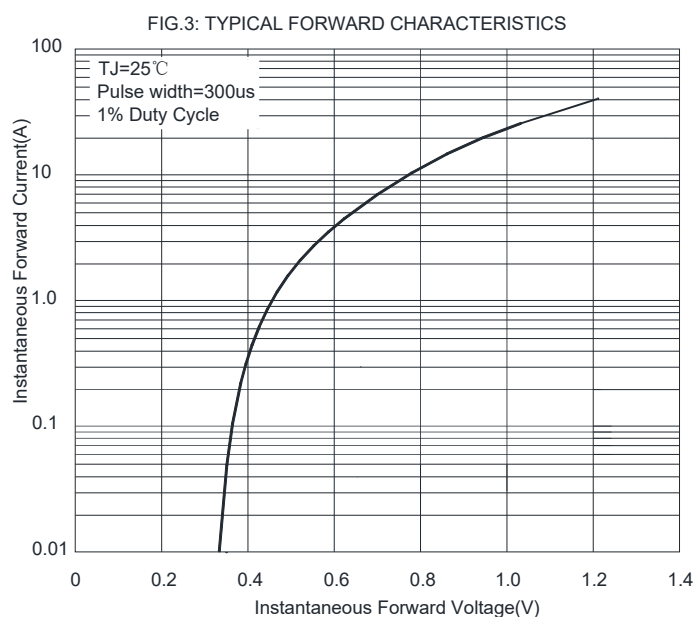
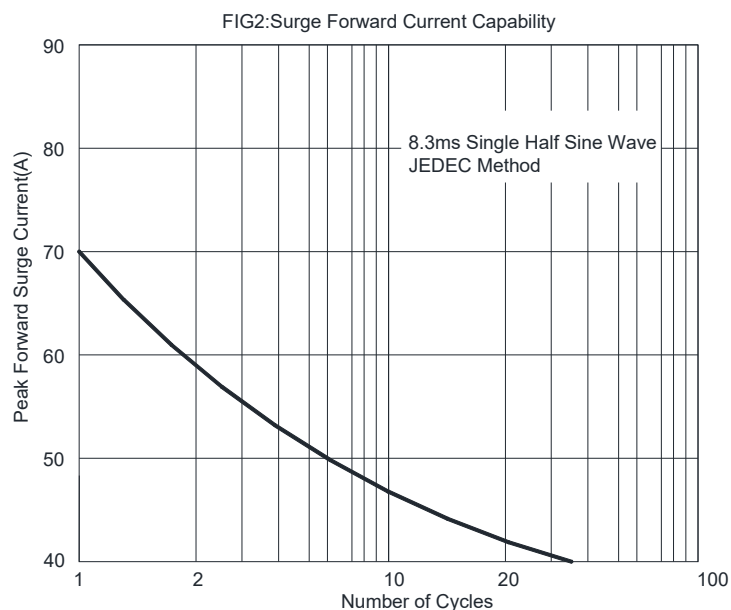
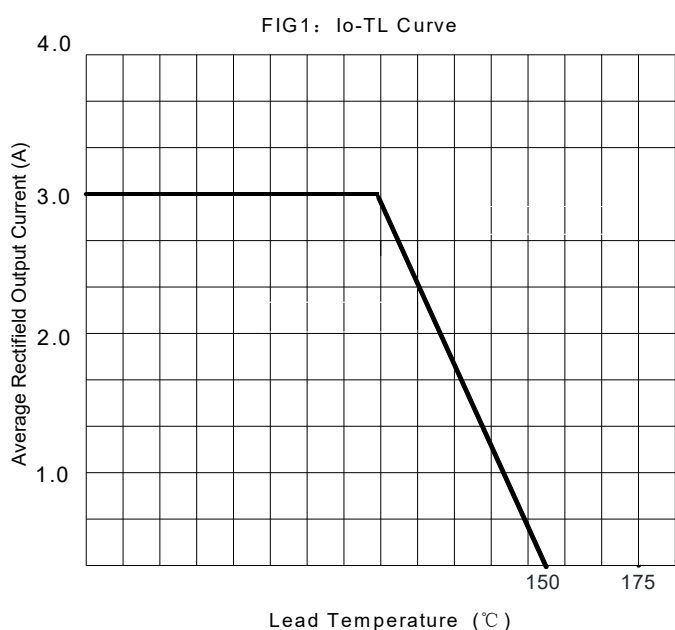
Thermal Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Unit	PMEG3030EP,115-CN
Thermal resistance	$R_{\theta J-A}$	$^{\circ}\text{C/W}$	55 ⁽¹⁾
	$R_{\theta J-L}$		17 ⁽¹⁾

Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Characteristics (Typical)



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