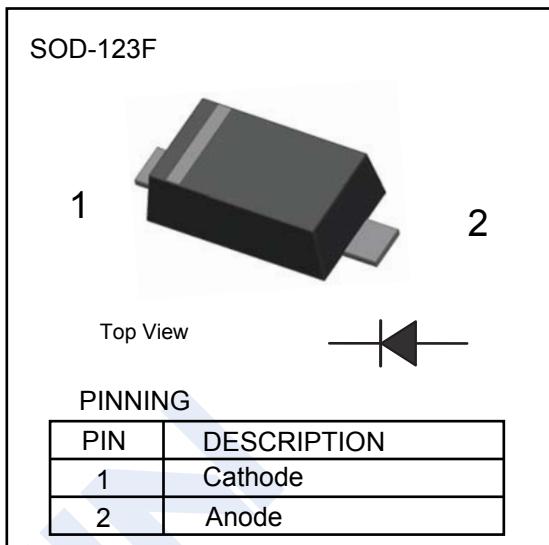


Schottky Diodes**PMEG3015EH****■ Features**

- Forward current: $\leq 1.5 \text{ A}$
- Reverse voltage: $\leq 30 \text{ V}$
- Ultra low forward voltage
- Small and flat lead SMD plastic packages

**■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	30	V
Forward Current @ $T_{sp} \leq 55^\circ\text{C}$	I_F	1.5	A
Repetitive Peak Forward Current @ $t_p \leq 1\text{ms}; \delta \leq 0.25$	I_{FRM}	4.5	
Non-Repetitive Peak Forward Current @ $t_p \leq 8\text{ms}$	I_{FSM}	9	
Power Dissipation (Note.1)	P_d	375	mW
		830	
Thermal Resistance Junction to Ambient (Note.1)	$R_{\theta JA}$	330	$^\circ\text{C}/\text{W}$
		150	
Thermal Resistance Junction to Solder Point	$R_{\theta JSP}$	60	
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-65 to 150	

Note.1:Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.

Note.2:Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm^2

Schottky Diodes**PMEG3015EH**■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu\text{A}$	30			V
Forward voltage	V_F	$I_F = 1 \text{ mA}$			160	mV
		$I_F = 10 \text{ mA}$			220	
		$I_F = 100 \text{ mA}$			290	
		$I_F = 500 \text{ mA}$			380	
		$I_F = 1 \text{ A}$			480	
		$I_F = 1.5 \text{ A}$			550	
Reverse voltage leakage current	I_R	$V_R = 10 \text{ V}$			150	uA
		$V_R = 30 \text{ V}$			1000	
Junction capacitance	C_j	$V_R = 1\text{V}, f = 1\text{MHz}$			72	pF

Note. Pulse test: $t_p \leqslant 300 \text{ us}$; $\delta \leqslant 0.02$.

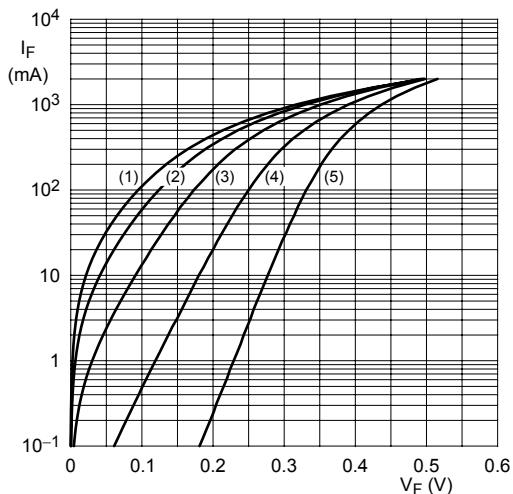
■ Marking

Marking	AE
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Schottky Diodes

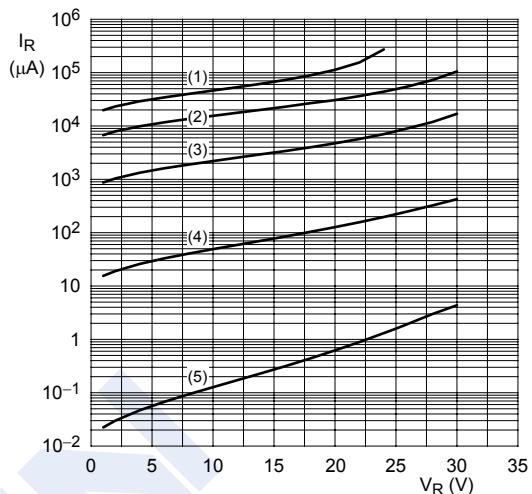
PMEG3015EH

■ Typical Characteristics



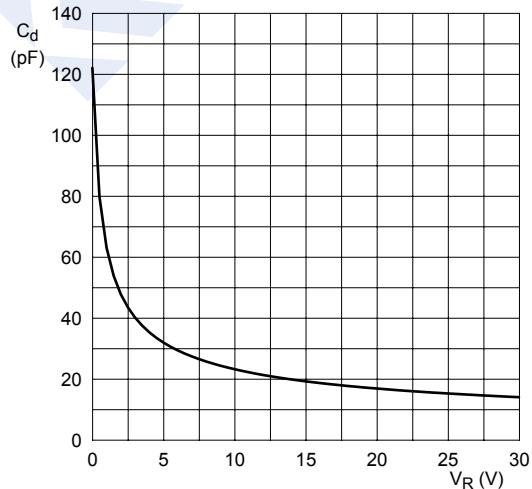
- (1) $T_{amb} = 150^\circ C$
- (2) $T_{amb} = 125^\circ C$
- (3) $T_{amb} = 85^\circ C$
- (4) $T_{amb} = 25^\circ C$
- (5) $T_{amb} = -40^\circ C$

Fig 1. Forward current as a function of forward voltage; typical values



- (1) $T_{amb} = 150^\circ C$
- (2) $T_{amb} = 125^\circ C$
- (3) $T_{amb} = 85^\circ C$
- (4) $T_{amb} = 25^\circ C$
- (5) $T_{amb} = -40^\circ C$

Fig 2. Reverse current as a function of reverse voltage; typical values



$T_{amb} = 25^\circ C; f = 1 \text{ MHz}$

Fig 3. Diode capacitance as a function of reverse voltage; typical values

Schottky Diodes

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Plastic surface mounted package; 2 leads

SOD-123F

