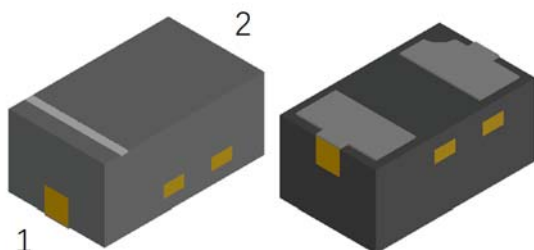


PMEG3005EL

Small Signal Schottky Diode



Features

- Moisture sensitivity level 3
- Reverse voltage: 30V
- Average forward current: 500mA

Application

- High frequency and low voltage rectifier

Mechanical data

- **Package:** DFN1006-2L
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			AM
Repetitive peak reverse voltage	V_{RRM}	V	30
Forward current	I_F	mA	500
Non-repetitive surge peak forward current @ $t=8.3\text{ms}$ half-sine wave	I_{FSM}	A	2
Non-repetitive surge peak forward current @ $t=1\text{ms}$ square wave			3
Power dissipation	P_D	mW	150
Junction temperature	T_J	$^{\circ}\text{C}$	-55 to +125
Storage temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +125

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■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Reverse voltage	V _R	V	I _R =1mA	30		
Reverse voltage leakage current	I _R	uA	V _R =10V			200
			V _R =30V			300
Forward voltage	V _F	mV	I _F =0.1mA			180
			I _F =1mA			200
			I _F =10mA			270
			I _F =100mA			360
			I _F =500mA			500
Capacitance	C _J	pF	V _R =5V, f=1MHz			15

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	667
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	535

Note:

(1) Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 4.5*6.5cm copper pad

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■ Characteristics

Fig 1: P_D -Ta Curve

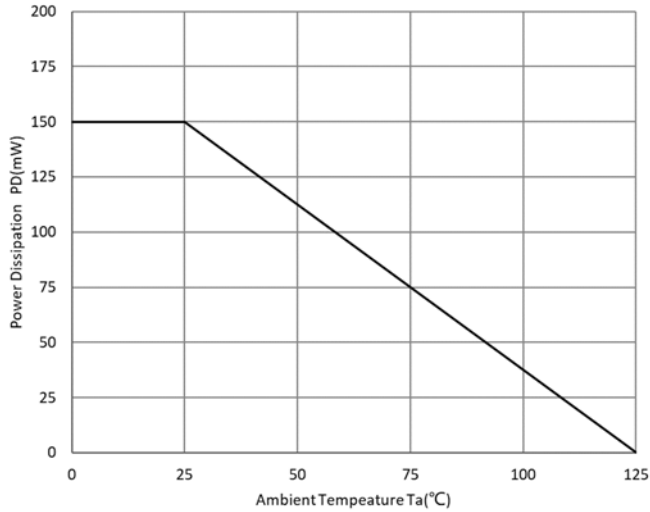


Fig 2: Capacitance Capability

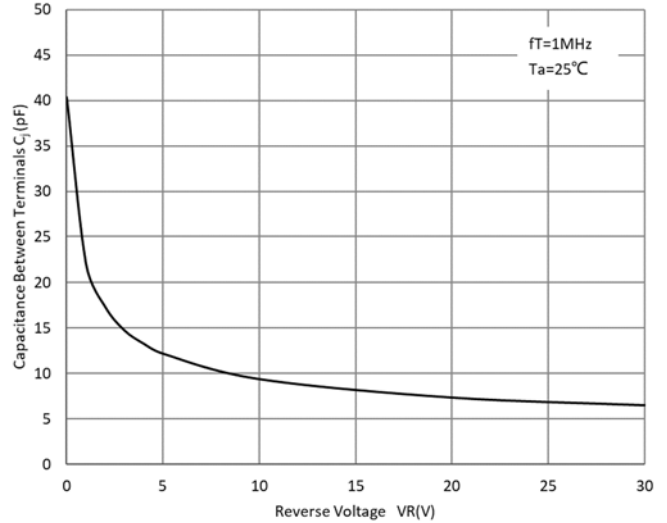


Fig 3: Typical Forward Characteristics

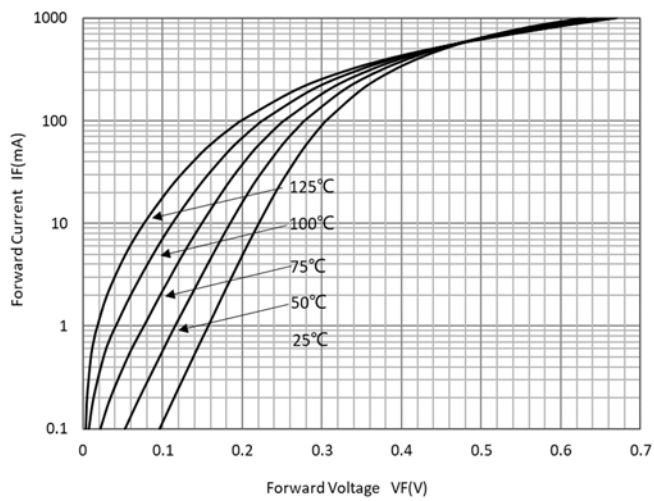
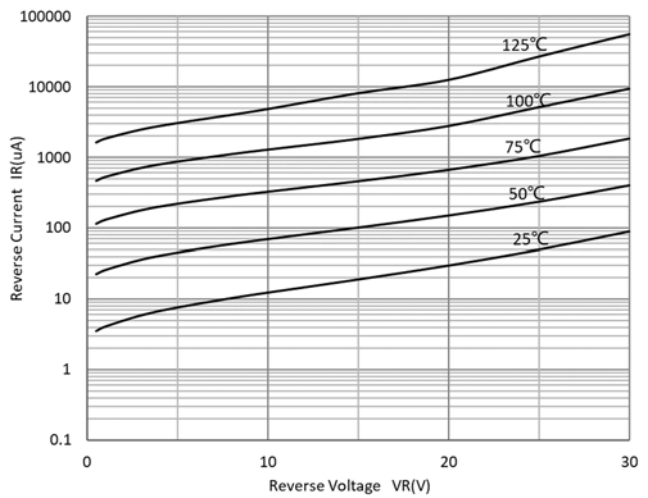


Fig 4: Typical Reverse Characteristics

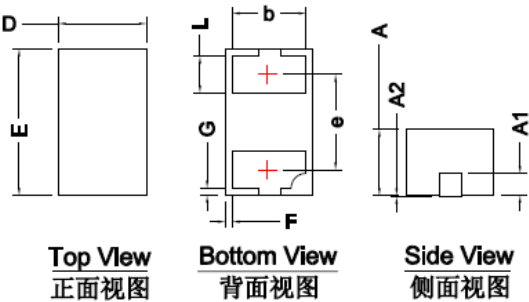


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Ordering Information

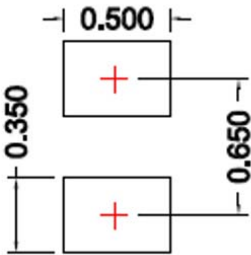
Prefered P/N	Packing Code	Unit Weight(mg)	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PMEG3005EL	F1	Approximate 0.9	10000	100000	400000	Tape & Reel

Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
D	0.50	0.60	0.70
E	0.90	1.00	1.10
A	0.35	0.45	0.55
A1	0.15 BSC		
A2			0.10
F	0.005		
G	0.005		
L	0.15	0.25	0.35
b	0.41	0.50	0.59
e	0.65 BSC		

Suggested Pad Layout



PMEG3005EL

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