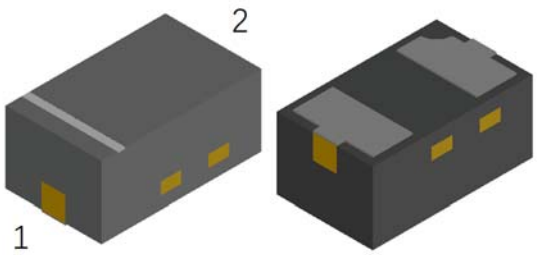
Small Signal Schottky Diode





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℃ 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=8.3ms half-sine wave	I_{FSM}	A	2
Non-repetitive surge peak forward current @ t=1ms square wave			3
Repetitive Peak Forward Current@ tp=1ms，δ=0.25	I_{FRM}	A	1
Power dissipation	P_D	mW	150
Junction temperature	T_J	℃	-55 to +125
Storage temperature	T_{STG}	℃	-55 to +125

■ Electrical Characteristics (Ta=25℃ 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	$R_{\theta J\text{-}A}$(1)	℃/W	667
Thermal resistance, junction-to-case	$R_{\theta J\text{-}C}$(1)	℃/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

■ Characteristics

Fig 1：P_D-Ta Curve

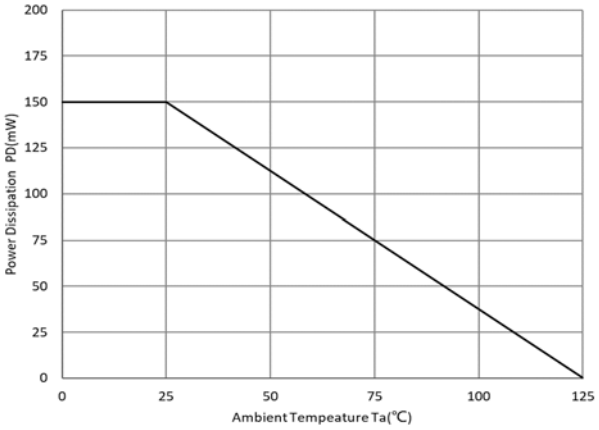


Fig 2：Capacitance Capability

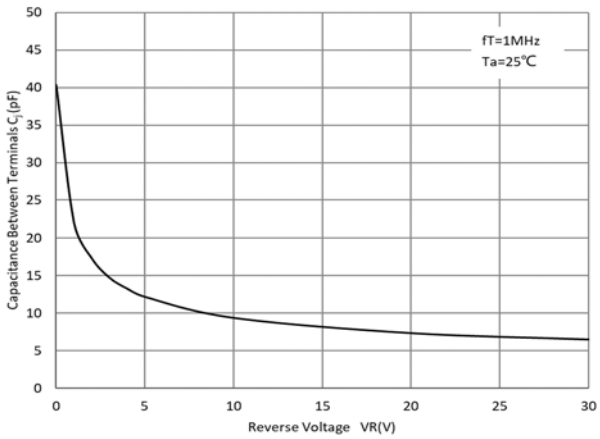


Fig 3：Typical Forward Characteristics

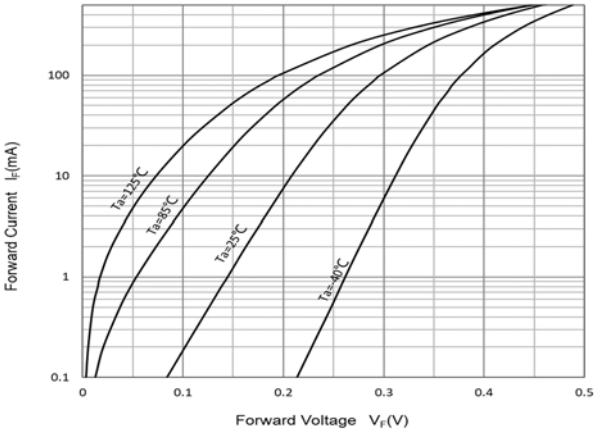
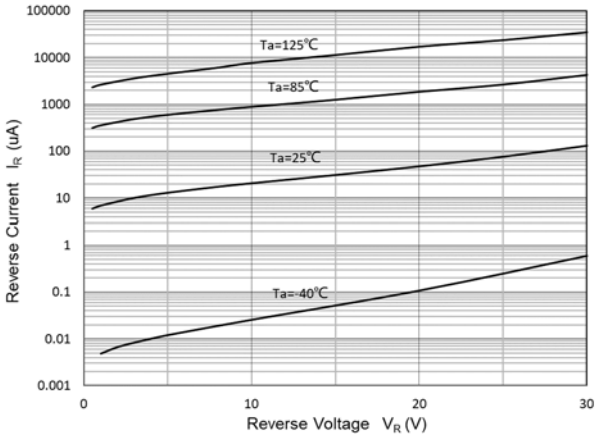


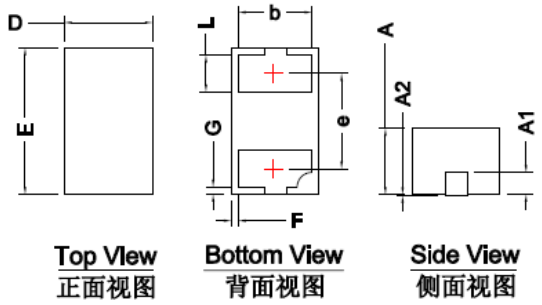
Fig 4：Typical Reverse Characteristics



■ Ordering Information

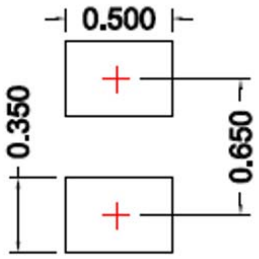
Prefered P/N	Packing Code	Unit Weight(mg)	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PMEG3005EL	F1	Approximate 0.9	10000	100000	400000	Tape & Reel

■ 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



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