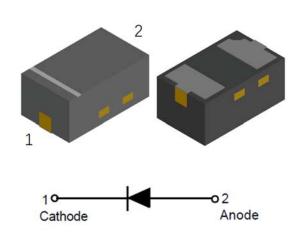






Small Signal Schottky Diode



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 (Ta=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			АМ
Repetitive peak reverse voltage	V_{RRM}	V	30
Forward current	l _F	mA	500
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave	-	Δ.	2
Non-repetitive surge peak forward current @ t=1ms square wave	I _{FSM}	А	3
Power dissipation	P_{D}	mW	150
Junction temperature	TJ	°C	-55 to +125
Storage temperature	T _{STG}	℃	-55 to +125



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

Parameter	Symbol	Unit	Conditions	Min	Тур	Max
Reverse voltage	V_R	V	I _R =1mA	30		
Reverse voltage leakage current	I _R	uA	V _R =10V			200
Reverse voltage leakage current			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	CJ	pF	V _R =5V,f=1MHz			15

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R ₀ J-A ⁽¹⁾	°C/W	667
Thermal resistance, junction-to-case	R ₀ J-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







■ Characteristics

Fig 1: P_D-Ta Curve

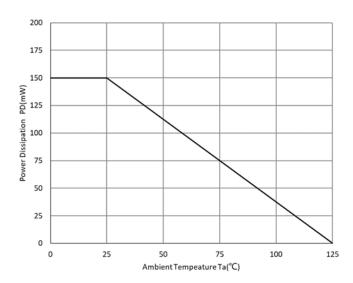


Fig 3: Typical Forward Characteristics

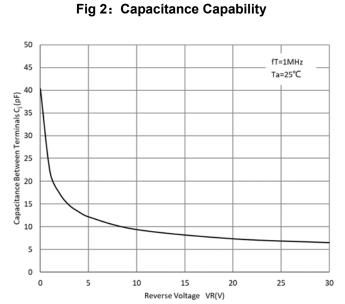
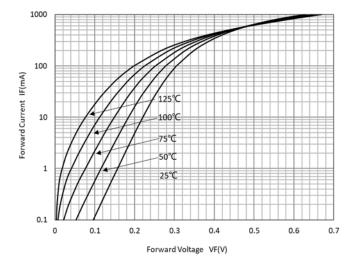
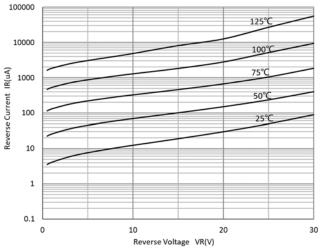


Fig 4: Typical Reverse Characteristics







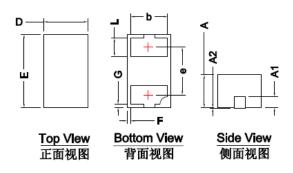
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■ Ordering Information

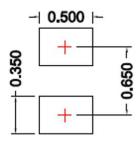
Prefered P/N	Packing Code	Unit Weight(mg)	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PMEG3005EL	F1	Approximate 0.9	10000	100000	400000	Tape & Reel

■ Outline Dimensions



SYMBOL	MILLIMETER				
STIVIBOL	MIN	NOM	MAX		
D	0.50	0.60	0.70		
E	0.90	1.00	1.10		
Α	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		
е	0.65 BSC				

■ Suggested Pad Layout





PMEG3005EL



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