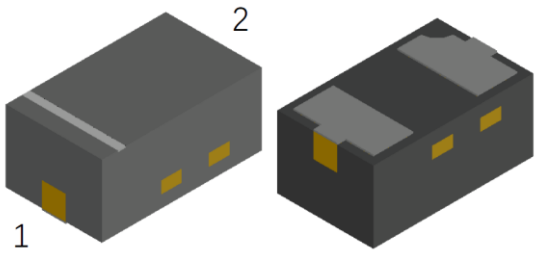
Small Signal Schottky Diode





Features

- Moisture sensitivity level 3
- Reverse voltage：70V
- Average forward current：70mA

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			73
Repetitive peak reverse voltage	V_{RRM}	V	70
Forward current	I_F	mA	70
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave	I_{FSM}	A	0.1
Non-repetitive surge peak forward current @ t=1ms square wave			0.1
Repetitive Peak Forward Current@ tp=1ms，δ=0.25	I_{FRM}	A	0.07
Power dissipation	P_D	mW	150
Junction temperature	T_J	℃	-55 to +125
Storage temperature	T_{STG}	℃	-55 to +150

■ Electrical Characteristics (Ta=25℃ Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Reverse voltage	V_R	V	I_R=10uA	70		
Forward voltage	V_{F1}	mV	I_F=1mA			410
	V_{F2}	mV	I_F=15mA			1000
Reverse voltage leakage current	I_R	nA	V_R=50V			200
Capacitance	Cj	pF	V_R=1V,f=1MHz			2
Reverse recovery time	Trr	ns	I_F=I_R=10mA, Irr=0.1*IR, R_L=100Ω			5

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	$R_{\theta J-A}$(1)	℃/W	667
Thermal resistance, junction-to-case	$R_{\theta J-C}$(1)	℃/W	534

Note:

（1）Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 17mm*10mm copper pad areas

■Characteristics

Fig 1：P_D-Ta Curve

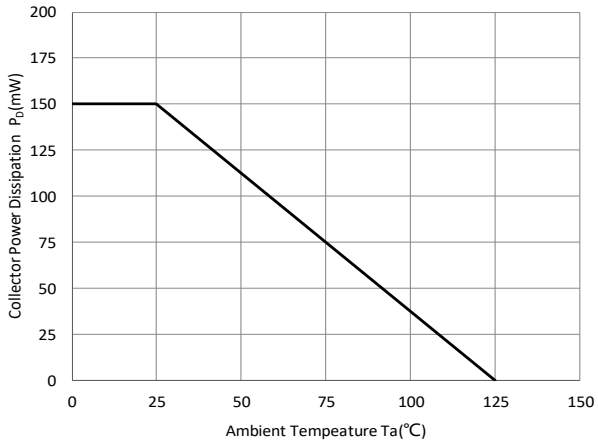


Fig 2：Capacitance Capability

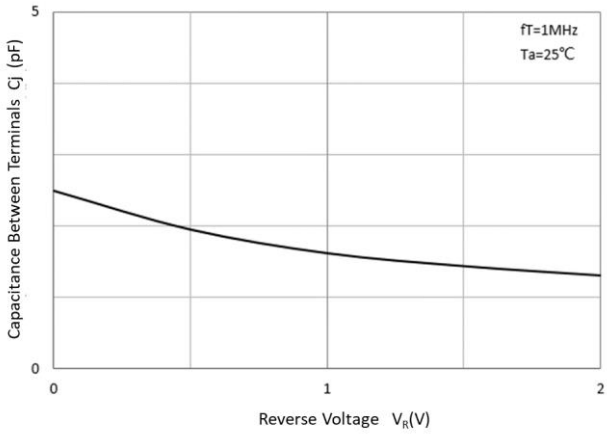


Fig 3：Typical Forward Characteristics

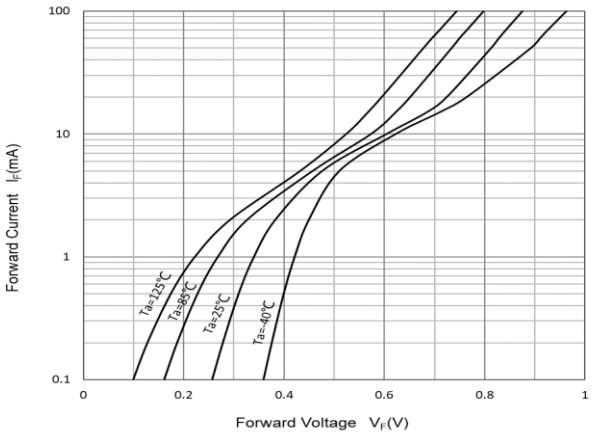
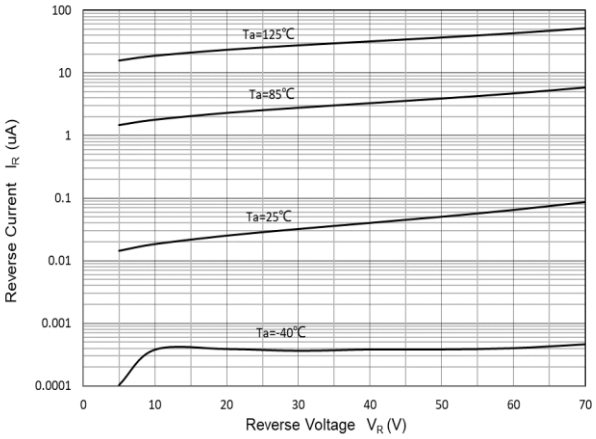
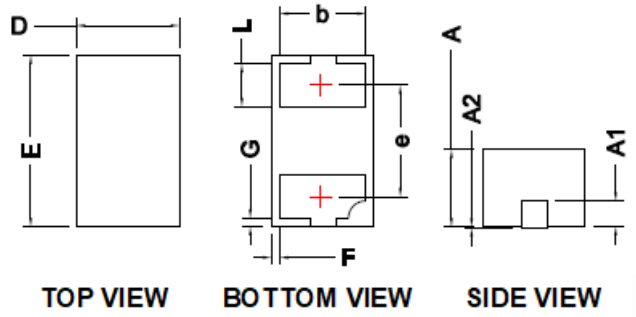


Fig 4：Typical Reverse Characteristics



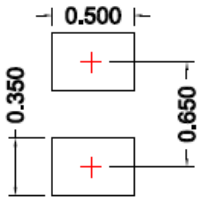
Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
BAS70L2	F1	Approximate 0.9	10000	100000	400000	Tape & Reel

■ 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



UNIT：mm

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