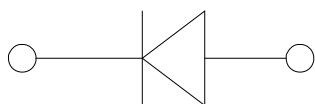
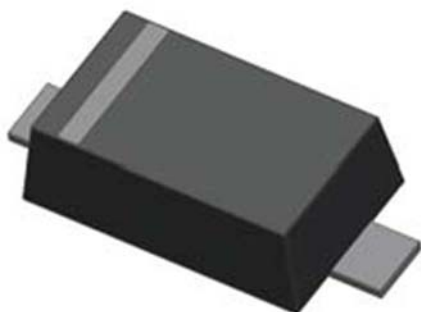


General Purpose Pin Diodes



Features

- Moisture sensitivity level 1
- Low diode capacitance
- Low diode forward resistance
- Small inductance

Application

- Surface mount band-switching circuits.

Mechanical data

- **Package:** SOD-523
- **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			A2
Repetitive peak reverse voltage	V_{RRM}	V	35
Forward current	I_F	mA	100
Power dissipation	P_D	mW	100
Junction temperature	T_J	$^{\circ}\text{C}$	-55 to +125
Storage temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +125



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

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Breakdown voltage	V _R	V	I _R =10uA	35		
Forward voltage	V _F	V	I _F =10mA			1
Reverse leakage current	I _{R1}	nA	V _R =20V			20
Junction capacitance	C _{J1}	pF	V _R =1V, f =1MHZ		1.6	
	C _{J2}	pF	V _R =3V, f =1MHZ		1.3	
	C _{J3}	pF	V _R =6V, f =1MHZ		1.2	
Diode forward resistance	r _D	Ω	I _F =2mA; f=100MHz			0.9

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	1000
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	800

Note:

(1) Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 8mm*9mm copper pad areas



■ Characteristics

Fig 1: P_D - T_a Curve

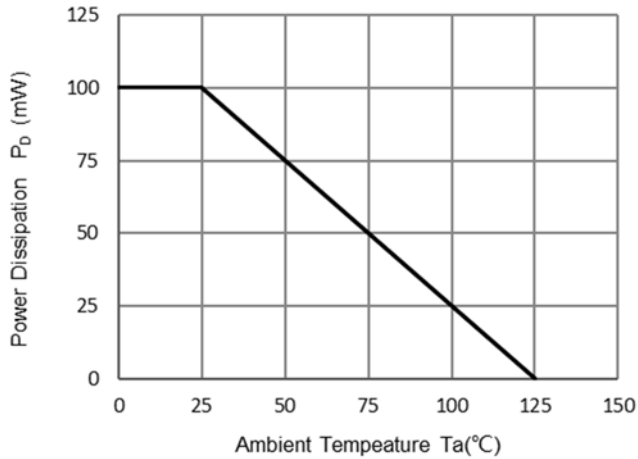


Fig 2: Capacitance Capability

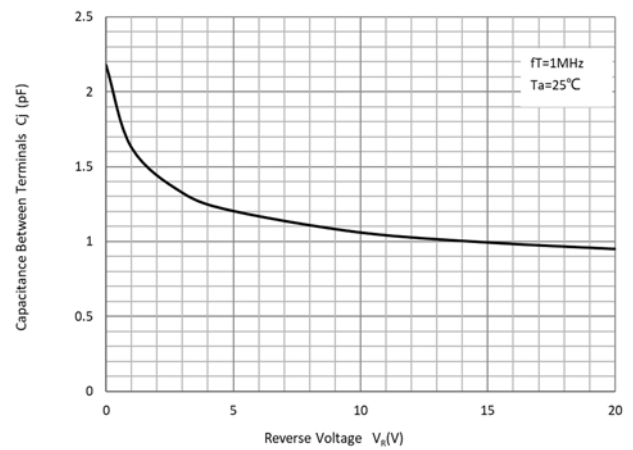
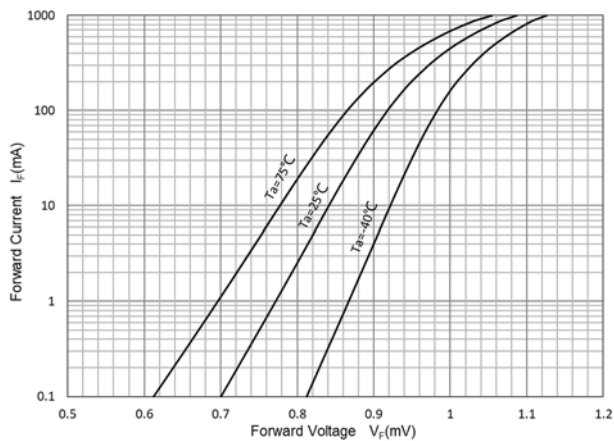


Fig 3: Typical Forward Characteristics

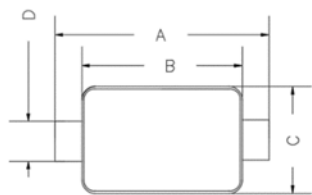




■ Ordering Information

Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
BA892-02V	F2	Approximate 0.002	8000	80000	320000	7" reel
BA892-02V	F3	Approximate 0.002	3000	30000	120000	7" reel

■ Outline Dimensions



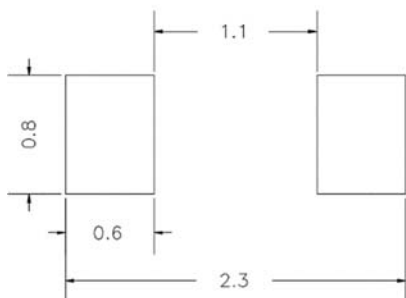
TOP VIEW



SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

■ Suggested Pad Layout



UNIT: mm



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