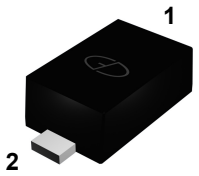
BAS716
Switching Diode

Features

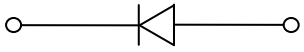
- Low Leakage Current
- Medium Speed Switching Time
- Plastic SOD-523 Package
- Working Peak Reverse Voltage: max. 75V
- Continuous Forward Current: max. 200mA
- RoHS Compliant



Package: SOD-523

Applications

- Low leakage current applications in surface mounted circuit



Schematic Diagram

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

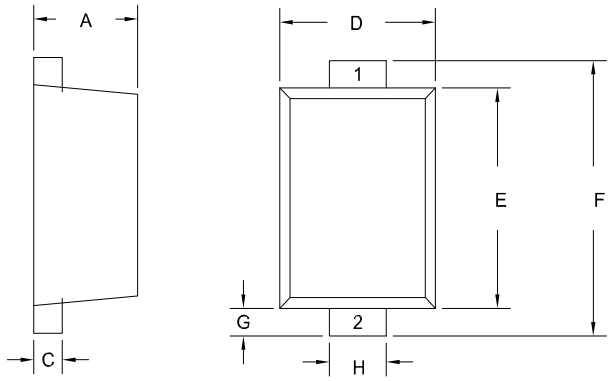
Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}	75	V
Continuous Forward Current	I_F	200	mA
Peak Forward Surge Current (half sine-wave t=8.3ms)	I_{FSM}	1	A
Power Dissipation	P_D	225	mW
Thermal Resistance From Junction to Ambient	$R_{\Theta JA}$	556	℃/W
Storage Temperature	T_{STG}	-55 to +150	℃
Junction Temperature	T_J	150	℃

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Condition	Typ	Max	Unit
Forward Voltage	V_F	I_F = 1mA	-	0.9	V
		I_F = 10mA	-	1.0	V
		I_F = 50mA	-	1.1	V
		I_F = 150mA	-	1.25	V
Reverse Current	I_R	V_R = 75V	-	5	nA
		V_R = 100V	-	80	nA
Diode Capacitance	C_d	V_R=0V, f=1MHz	2	-	pF
Reverse Recovery Time	t_{rr}	when switched from I_F=10mA to I_R=10mA; R_L=100Ω; measured at I_R=1mA	-	3	μs

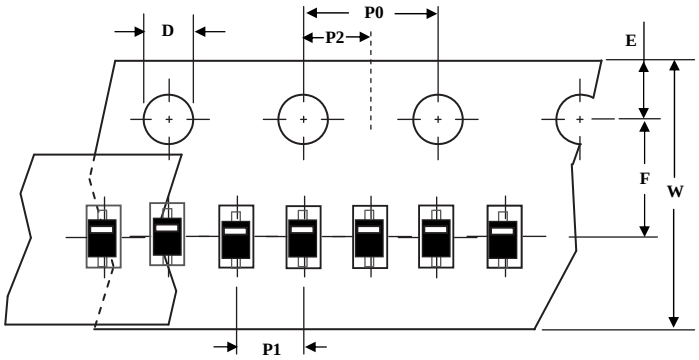
Product Dimensions

SOD-523



Dim	millmeters	
	min	max
A	0.51	0.77
C	0.07	0.20
D	0.70	0.90
E	1.10	1.30
F	1.50	1.70
G	0.2 REF	
H	0.25	0.35

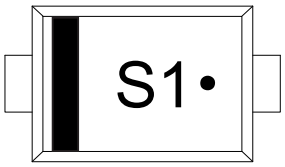
Package Information



Unit : mm

TapeSize(W)	D	E	F	P0	P1	P2	W max
8	1.55±0.05	1.75±0.1	3.5±0.05	4.0±0.1	2.0±0.05	2.0±0.05	8.3

Marking



Order Information

Device	Package	Net Weight	Carrier	Quantity	HSF Status
BAS716	SOD-523	0.0014g	Tape & Reel	8000pcs / Reel	RoHS compliant