

SCHOTTKY BARRIER DIODE

VOLTAGE RANGE: 40V PEAK PULSE POWER:500mW

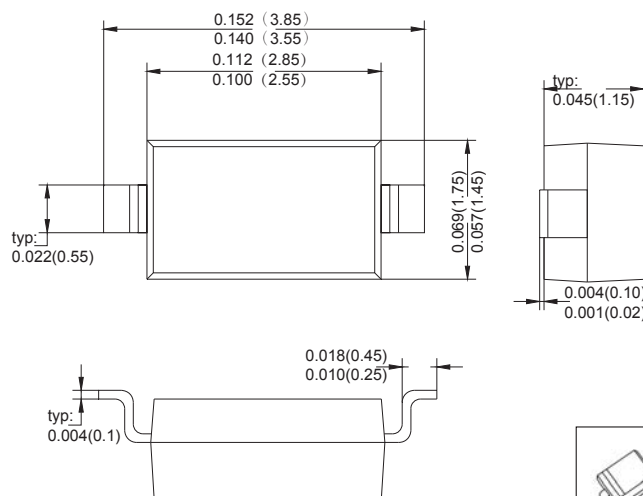
FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient
- Protection High Conductance
- Also Available in Lead Free Version

MECHANICAL DATA

- Case: SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

SOD-123



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	28	V
Average rectified output current	I_O	0.5	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	5.5	A
Power dissipation	P_D	500	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	200	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{STG}	-55~+150	°C
Voltage rate of change	dv/dt	1000	V/μs

Electrical Specification ($T_A=25@25^{\circ}C$ unless otherwise specified)

	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V(BR)$	$R_I = 20\mu A$	40			V
Reverse current	I_R $R = V$	$=20V$			10	μA
		40V			20	
Forward voltage	V_F	$I_F=0.5A$			0.51	V
		$I_F=1.0A$			0.62	
Capacitance between terminals	C_T	$V_R=0, f=1MHz$			170	pF

MARKING:SF

RATINGS AND CHARACTERISTIC CURVES

