

SCHOTTKY BARRIER DIODE

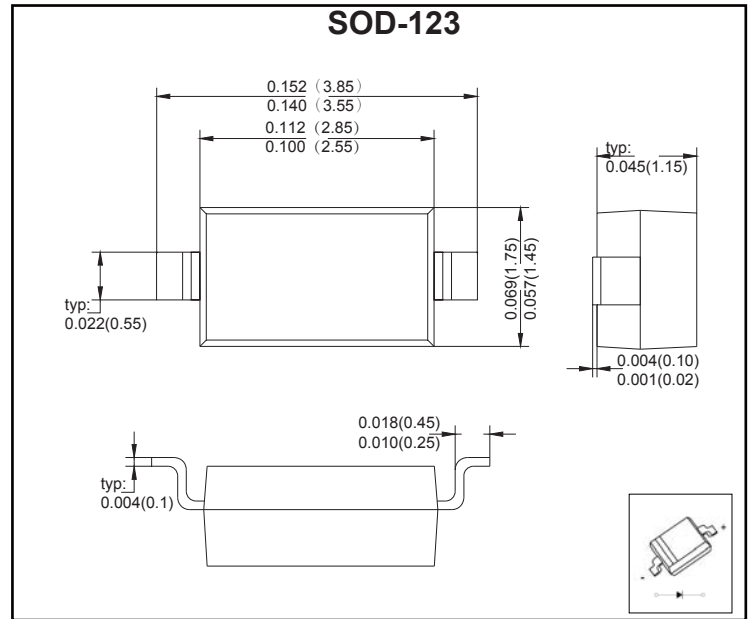
VOLTAGE RANGE: 30V PEAK PULSE POWER:500mW

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



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbo	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}		
Working peak reverse voltage	V_{RWM}	30	V
DC blocking voltage	V_R		
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	21	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/ μ s

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

	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 200\mu\text{A}$	30			V
Reverse current	I_R	$V_R = 15\text{V}$			20	μA
		$V_R = 30\text{V}$			130	
Forward voltage	V_F	$I_F = 0.1\text{A}$			0.375	V
		$I_F = 0.5\text{A}$			0.430	
Capacitance between terminals	CT	$V_R = 1, f = 1\text{MHz}$		170		pF

MARKING:SE

RATINGS AND CHARACTERISTIC CURVES

