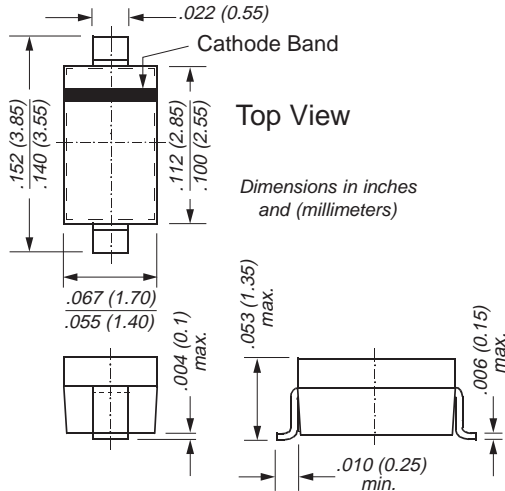




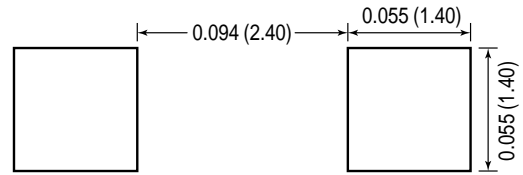
SOD-123

Small Surface Mount Schottky Rectifier

Reverse Voltage 30V
Forward Current 0.5A



Mounting Pad Layout



Mechanical Data

- Case:** SOD-123 plastic case
- Polarity:** Band denotes cathode end
- Weight:** 0.01g **Marking Code:** B3
- Terminals:** High temperature soldering: 250°C/10 seconds at terminals
- Packaging Codes/Options:**
 - D3/10K per 13" reel (8mm tape)
 - D4/3K per 7" reel (8mm tape)

Features

- For surface mounted applications
- Low profile package
- Ideal for automated placement
- Low power loss, high efficiency

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	30	V
Working peak reverse voltage	V _{RWM}	30	V
Maximum DC blocking voltage	V _R	30	V
Maximum average forward rectified current at rated V _R , T _C = 115°C	I _{F(AV)}	0.5	A
Peak forward surge current 8.3ms single half sine-wave T _L = 25°C	I _{FSM}	5.5	A
Voltage rate of change at rated V _R , T _J = 25°C	dv/dt	1,000	V/μs
Typical thermal resistance junction to lead	R _{θJL}	118	°C/W
junction to ambient	R _{θJA}	206	°C/W
Operating junction and storage temperature	T _J , T _{STG}	-55 to +125	°C

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

Maximum instantaneous forward voltage ⁽¹⁾	at I _F = 0.1A, T _J = 25°C	V _F	0.375	V
	at I _F = 0.1A, T _J = 100°C		0.340	
	at I _F = 0.5A, T _J = 25°C		0.43	
	at I _F = 0.5A, T _J = 100°C		0.420	
Maximum DC reverse current	V _R = 30V, T _J = 25°C	I _R	130	μA
	V _R = 30V, T _J = 100°C		5	mA
	V _R = 15V, T _J = 25°C		20	μA

Note: (1) Pulse test: 300 ms pulse width, 1% duty cycle.