

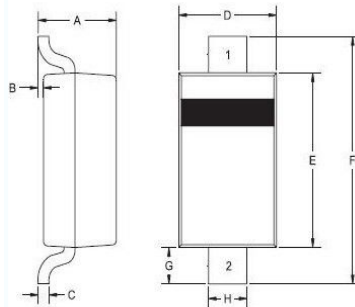
Features

High Current Capability
Low Forward Voltage Drop

Mechanical Data

SOD-123 Small Outline Plastic Package
Polarity: Color band denotes cathode end
Epoxy UL: 94V-0
Mounting Position: Any

SOD123



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.90
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	MBR0520L	Unit
Maximum repetitive peak reverse voltage	VRRM	20	V
Maximum RMS voltage	VRMS	14	V
Maximum DC blocking voltage	VDC	20	V
Maximum average forward rectified current	IFM	0.5	A
Peak forward surge current 8.3 ms single half sine-wave	IFSM	5.5	A
Typical thermal resistance	RθJA	200	°C/W
Power Dissipation	PD	500	mW
Storage temperature range	TSTG	-50-+150	°C
Voltage rate of change	Dv/dt	1000	V/uS

MBR0520L

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified).

Parameters	Symbol	Test conditions	MBR0520L	Unit
Maximum forward voltage	VF	IF = 0.1A	0.330	V
		IF = 0.5A	0.385	
		IF = 1.0A	---	
Maximum reverse breakdown voltage	VR	IR=250uA	20	V
		IR=200uA	---	
		IR=20.0uA	---	
Maximum reverse current	IR	VR=10V	75	uA
		VR=15V	---	
		VR=20V	250	
		VR=30V	---	
		VR=40V	---	

RATING AND CHARACTERISTIC CURVES (MBR0520L)

