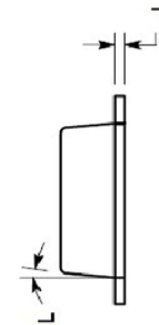
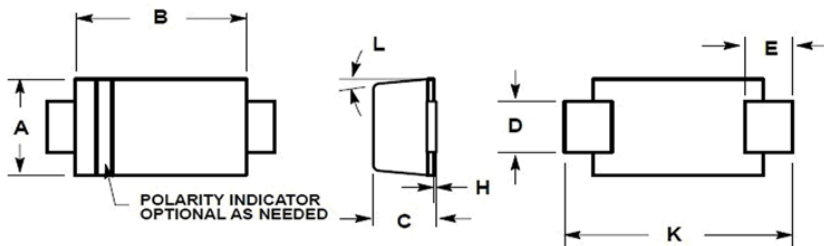


特性/机械性能:

- ◆ Low forward voltage drop.
- ◆ Guard ring construction for transient Protection.
- ◆ High conductance.
- ◆ 0.5A surface mount schottky barrier rectifier.



SOD-123

产品外形尺寸:
Product appearance size


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.50	1.80	0.059	0.071
B	2.50	2.90	0.098	0.114
C	0.90	1.20	0.035	0.047
D	0.70	1.10	0.028	0.043
E	0.50	0.95	0.020	0.037
H	0.00	0.10	0.000	0.004
J	0.10	0.20	0.004	0.008
K	3.40	3.90	0.134	0.154
L	0°	8°	0°	8°

最大额定值及电气特性
MAXIMUM RATINGS AND CHARACTERISTICS

Characteristic	Symbol	B0520LW	B0530W	B0540W	Unit
Peak Repetitive Reverse Voltage	VRRM				
Working Peak Reverse Voltage	VRWM	20	30	40	V
DC Reverse Voltage	VR				
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current @ $T_L = 100^\circ\text{C}$	IO		0.5		A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM		5.5		A
Power Dissipation	Pd		410		mW
Typical Thermal Resistance Junction to Ambient	R θ J-A		244		°C/W
Operating and Storage Temperature Range	Tj, Tstg		-65 to +125		°C
Voltage Rate of Change	dv/dt		1000		V/ μ s

最大额定值及电气特性
MAXIMUM RATINGS AND CHARACTERISTICS

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	B0520LW	B0530W	B0540W	Unit	Test Conditions
Minimum Reverse Breakdown Voltage	V _{(BR)R}	20	-	-	V	IR= 250μA
		-	30	-		IR= 130μA
		-	-	40		IR= 20μA
Maximum Forward Voltage Drop	V _{FM}	0.300	0.375	-	V	IF=0.1A, T _j =25°C
		0.385	0.430	0.510		IF=0.5A, T _j =25°C
		-	-	0.620		IF=1.0A, T _j =25°C
		0.220	-	-		IF=0.1A, T _j =100°C
		0.330	-	0.460		IF=0.5A, T _j =100°C
		-	-	0.610		IF=1.0A, T _j =100°C
Maximum Leakage Current	I _{RM}	75	-	-	μA	VR=10V, T _j =25°C
		-	20	-		VR=15V, T _j =25°C
		250	-	10		VR=20V, T _j =25°C
		-	130	-		VR=30V, T _j =25°C
		-	-	20		VR=40V, T _j =25°C
		5.0	-	-		VR=10V, T _j =100°C
8.0	-	5.0	VR=20V, T _j =100°C			
-	-	13	VR=40V, T _j =100°C			
Junction Capacitance	C _J	170			pF	f=1MHz, VR=0V DC

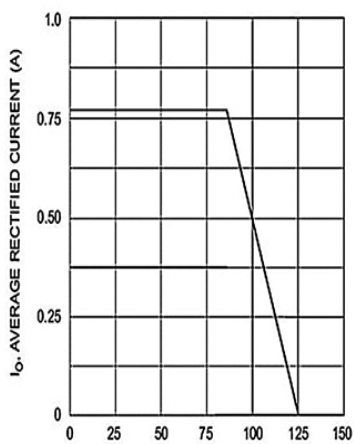
特性曲线图:
RATINGS AND CHARACTERISTIC CURVES


Fig. 1 Forward Current Derating Curve

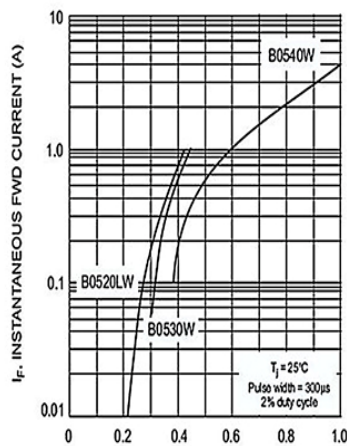


Fig. 2 Typical Forward Characteristics

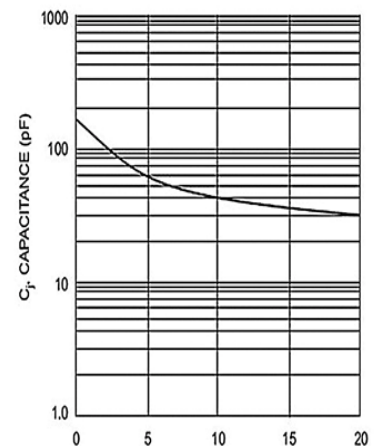


Fig. 3 Typ. Junction Capacitance vs Reverse Voltage