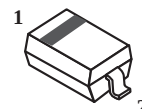


Surface Mount Schottky Barrier Diodes

 Lead(Pb)-Free

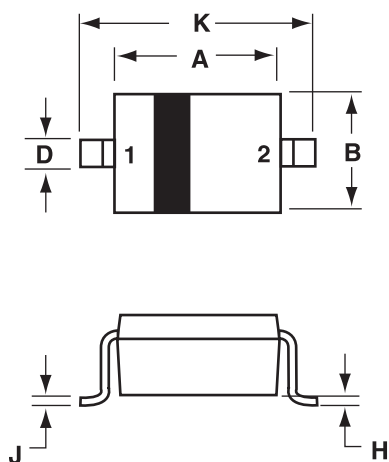
**SMALL SIGNAL
SCHOTTKY DIODES
1000m AMPERES
30 VOLTS**



SOD-123

SOD-123 Outline Dimensions

Unit:mm



SOD-123		
Dim	Min	Max
A	2.55	2.85
B	1.40	1.80
C	0.95	1.35
D	0.50	0.70
E	0.30 REF	
H	-	0.10
J	-	0.15
K	3.55	3.85

PIN 1. CATHODE
2. ANODE

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbol	Limits	Unit
DC reverse voltage	V _R	30	V
Mean rectifying current	I _O	1	A
Peak forward surge current	I _{FSM}	30	A
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40-125	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F			0.46 0.48	V	I _F =0.5A I _F =1A
Reverse current	I _R			20 50	μ A	V _R =15V V _R =30V

Device Marking

B130-30 = 73

Typical Characteristics

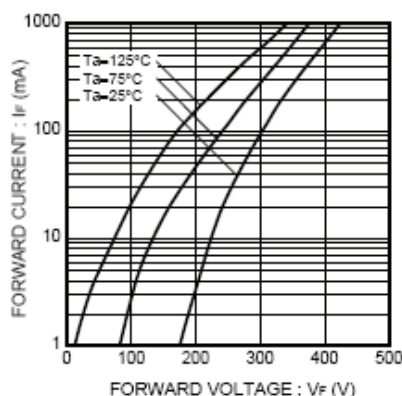


Fig.1 Forward Characteristics

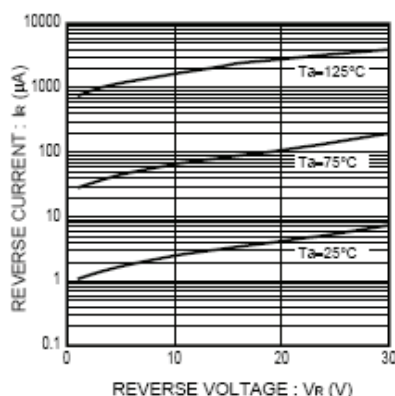


Fig.2 Reverse Characteristics

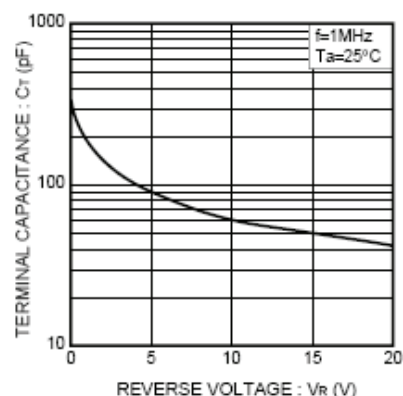


Fig.3 Capacitance Between Terminals Characteristics

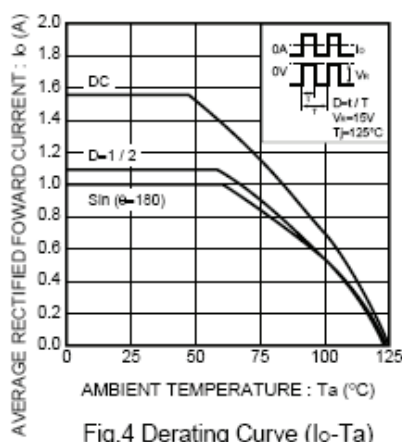


Fig.4 Derating Curve (I_o - T_a)

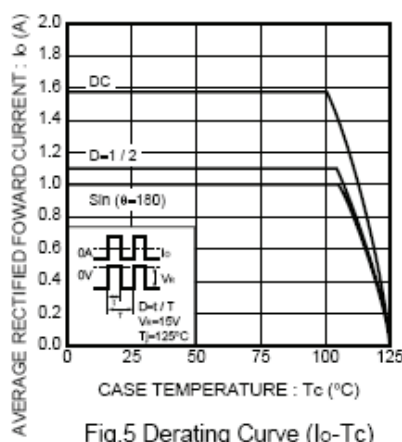


Fig.5 Derating Curve (I_o - T_c)

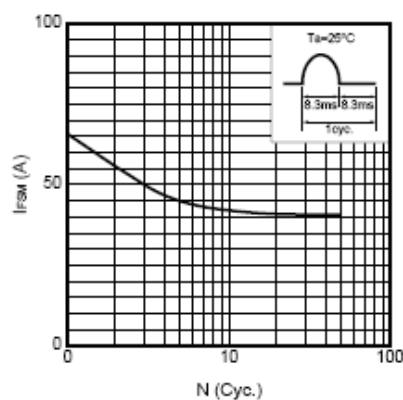


Fig.6