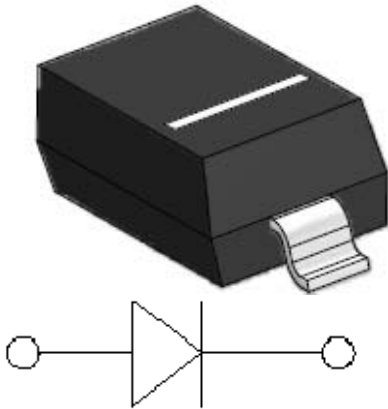


Small Signal Schottky Diode



Features

- V_R 60V
- I_{FAV} 1A

Mechanical Data

- **Package:** SOD-123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** X6

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		60
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p=8.3\text{ms}$	20
Average forward current	I_{FAV}	A		1
Junction temperature	T_j	$^\circ\text{C}$		125
Storage temperature range	T_{stg}	$^\circ\text{C}$		-55 to +150

■Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V_F	V	$I_F=0.1\text{A}$	0.55
		V	$I_F=1\text{A}$	0.75
		V	$I_F=3\text{A}$	1
Maximum Reverse current	I_R	μA	$V_R=60\text{V}$	500
Minimum Breakdown voltage	V_R	V	$I_R=100\mu\text{A}$	60

■Ordering Information (Example)

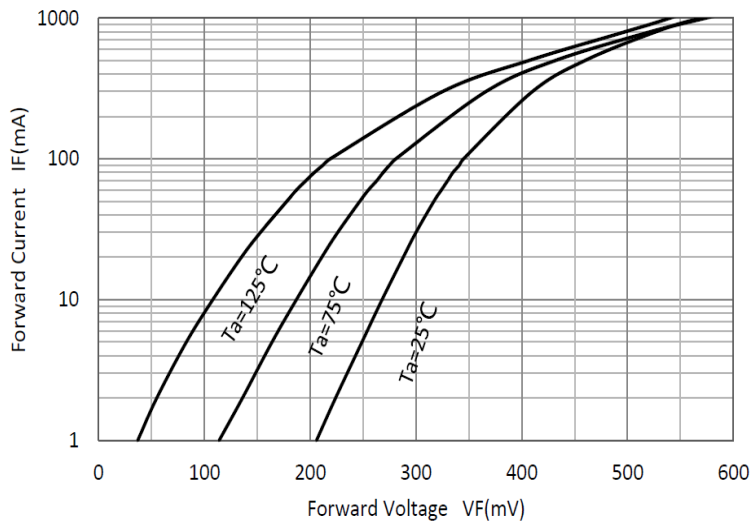
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR160	F2	Approximate 0.011	3000	30000	120000	7" reel



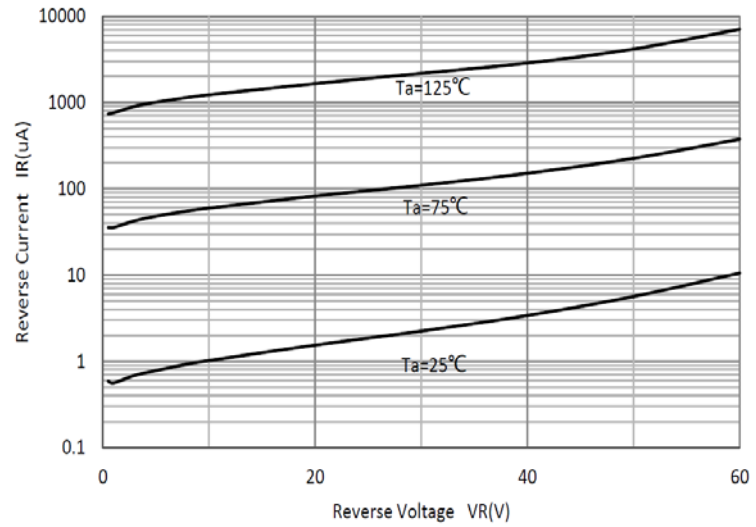
MBR160

■ Characteristics (Typical)

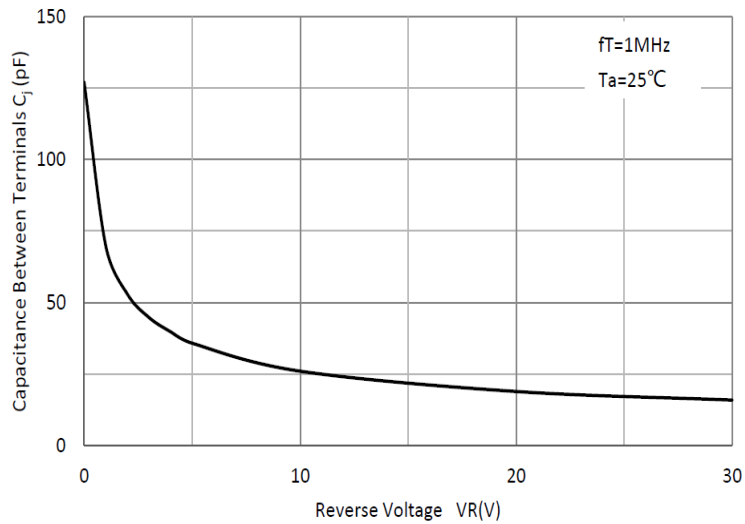
Forward Characteristics



Reverse Characteristics



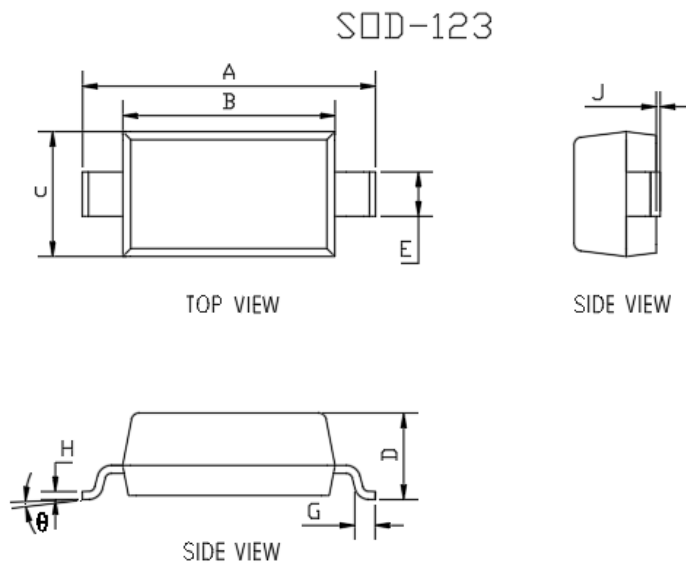
Capacitance Characteristics





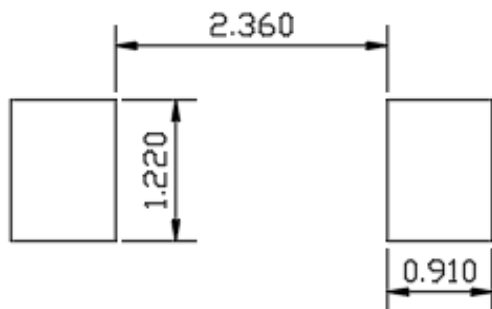
MBR160

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.140	0.152	3.550	3.850
B	0.100	0.112	2.550	2.850
C	0.055	0.071	1.400	1.800
D	0.037	0.053	0.950	1.350
E	0.020	0.028	0.510	0.710
G	0.006	0.018	0.150	0.450
H	0.003	0.010	0.080	0.250
J	0.000	0.006	0.000	0.150
θ	0	8°	0	8°

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



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