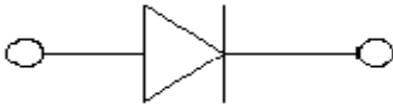


Schottky Rectifier



Features

- V_R 30V
- I_F 0.5A
- Low Forward Voltage Drop
- Moisture Sensitivity Level 1

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:** SE

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
DC Blocking Voltage	V_R	V		30
Peak forward surge current	I_{FSM}	A	8.3ms, half sine	5.5
Average forward current	I_{FAV}	A		0.5
Power dissipation	P_{tot}	mW		350
Thermal Resistance from junction to ambient(Note)	$R_{\theta JA}$	°C/W		286
Maximum junction temperature	T_j	°C		125
Storage temperature range	T_{stg}	°C		-55 to +125

Note: Device mounted on PCB

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Breakdown Voltage	V_R	V	$I_R=100\mu A$	30	-	-
Reverse Leakage Current	I_R	uA	$V_R=15V$	-	-	20
			$V_R=30V$	-	-	130
Forward Voltage	V_F	V	$I_F=0.1A$	-	-	0.375
			$I_F=0.5A$	-	-	0.43
Capacitance	C_j	pF	$V_R=0V, f=1MHz$	-	180	-

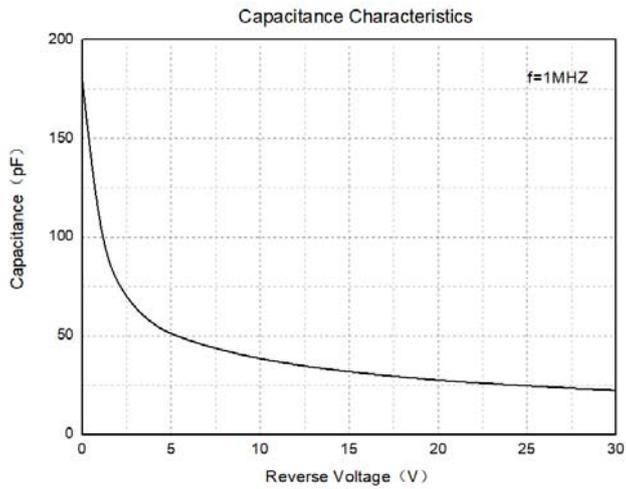
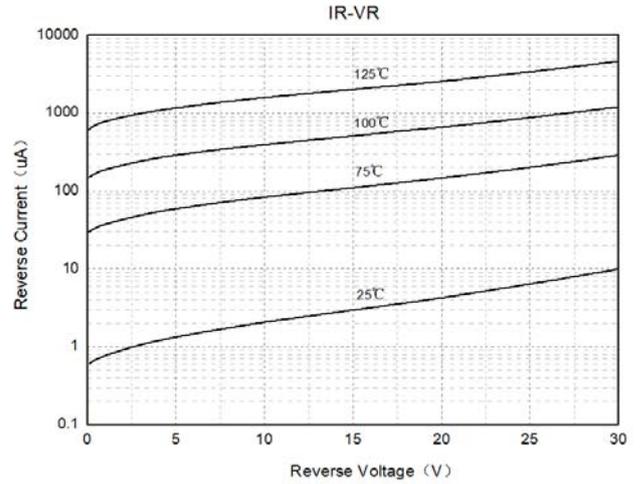
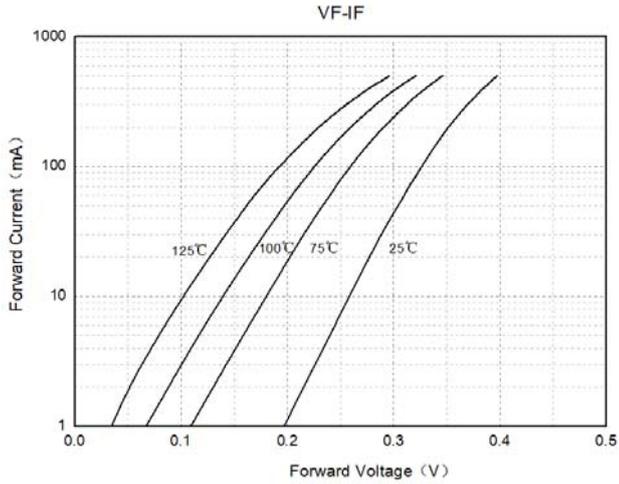


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■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR0530L	F2	Approximate 0.011	3000	30000	120000	7" reel

■ Characteristics (Typical)

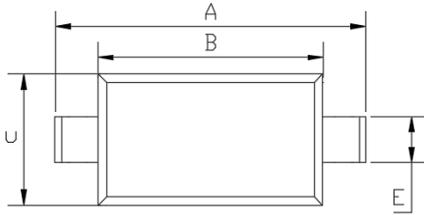




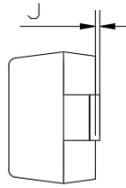
MBR0530L

■ Outline Dimensions

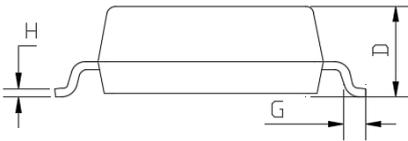
SOD-123



TOP VIEW



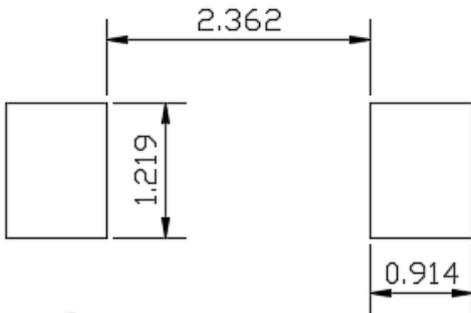
SIDE VIEW



SIDE VIEW

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	---	0.150	---
H	---	0.010	---	0.250
J	---	0.006	---	0.150

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

Note:

- All dimensions are in millimeters (mm) unless otherwise specified.
[所有尺寸均以毫米为单位, 除非另有说明]
- General tolerances: $\pm 0.10\text{mm}$ unless otherwise specified.
[通用公差为 $\pm 0.10\text{mm}$, 除非另有说明]
- Dimensions and tolerances per ASME Y14.5M-2018.
[尺寸和公差遵循 ASME Y14.5M-2018 标准]
- All dimensions shown are exclusive of burrs and gate residues.
Burrs and gate vestiges shall not exceed 0.15 mm in maximum.
[所有尺寸均不包括毛刺和浇口残留。毛刺与浇口残留的尺寸最大不得超过 0.15mm]
- Dimension b does not include dambar protrusion of max 0.100 mm per side.
[尺寸b不包括单边最大0.100 MM的中筋凸出部分]
- Dimensions B and C are the overall extreme outer dimensions of the mold compound. These dimensions exclude mold flash, lead flash, protrusions and burrs but include the maximum allowable mold mismatch.
[B和C是塑封体的外部极限尺寸, 不包括包封溢料、内引线溢料、凸出部分以及胶体毛刺, 但是包含了包封错位的最大尺寸]
- Formed leads shall be planar with respect to one another within a maximum of 0.076 mm relative to the seating plane.
[成型的管脚应为同一平面, 共面性最大为0.1mm]



MBR0530L

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