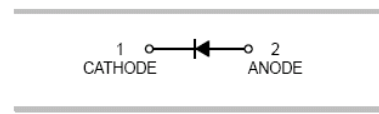




### FEATURES

- Small power mold type
- Low  $I_R$
- High reliability



### APPLICATIONS

- General rectification



**SOD-123**

### ORDERING INFORMATION

Type No.	Marking	Package Code
RB160M-30	73	SOD-123

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

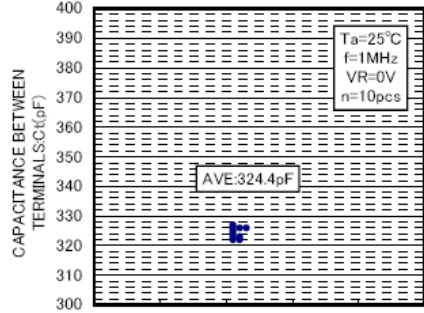
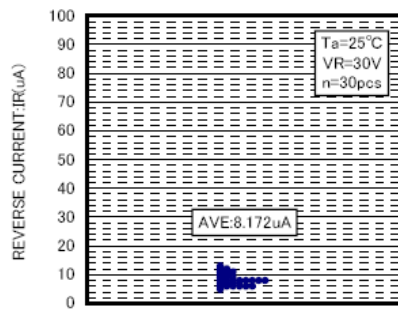
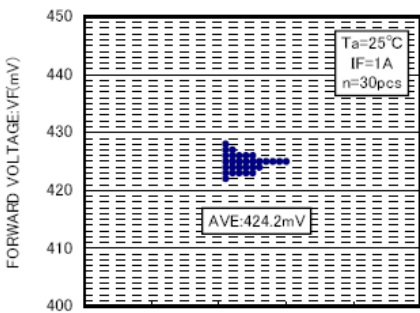
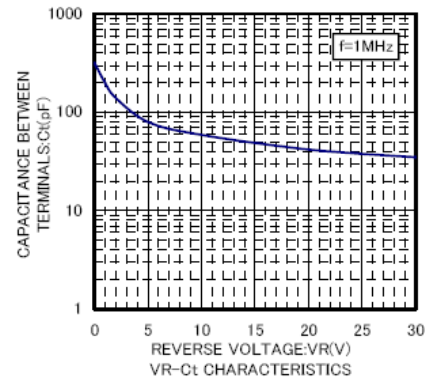
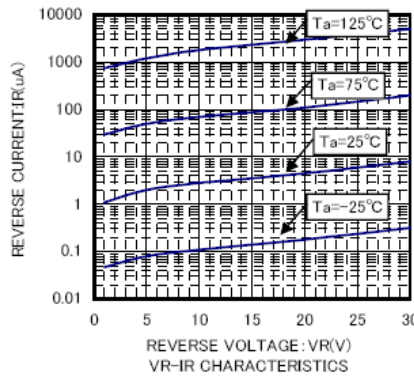
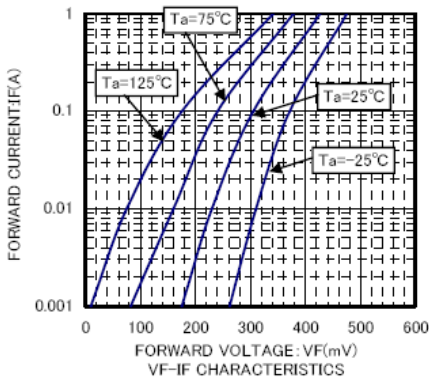
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse Voltage	$V_R$	30	V
Average rectified forward current	$I_O$	1	A
Forward current surge peak (60Hz / 1cyc)	$I_{FSM}$	30	A
Power Dissipation	$P_d$	400	mW
Storage temperature	$T_{STG}$	-40 to+125	°C
Junction temperature	$T_J$	125	°C

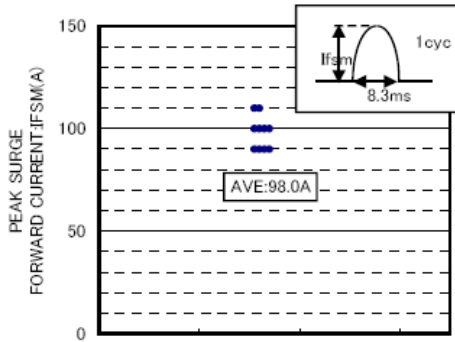


### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

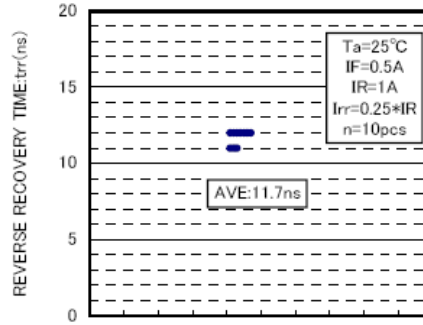
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.5A	-	0.39	0.46	V
		I <sub>F</sub> =1.0A	-	0.43	0.48	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V	-	3.0	20	μA
		V <sub>R</sub> =30V	-	9.0	50	μA

### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

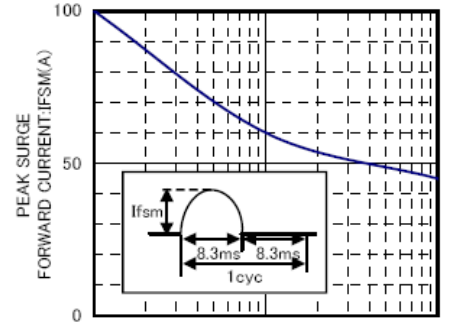




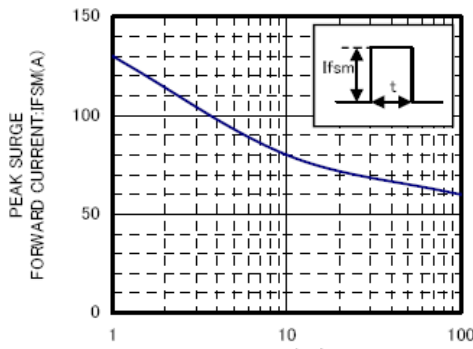
IFSM DISREION MAP



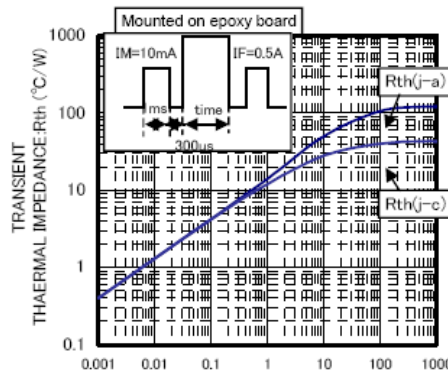
trr DISPERSION MAP



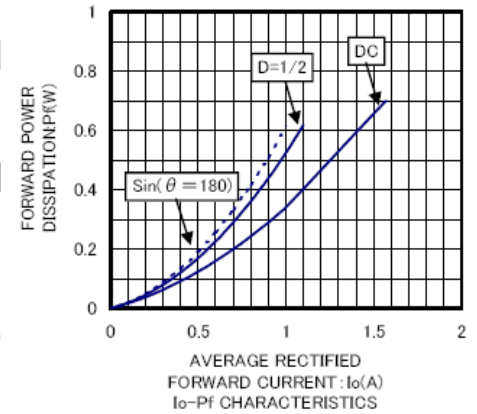
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



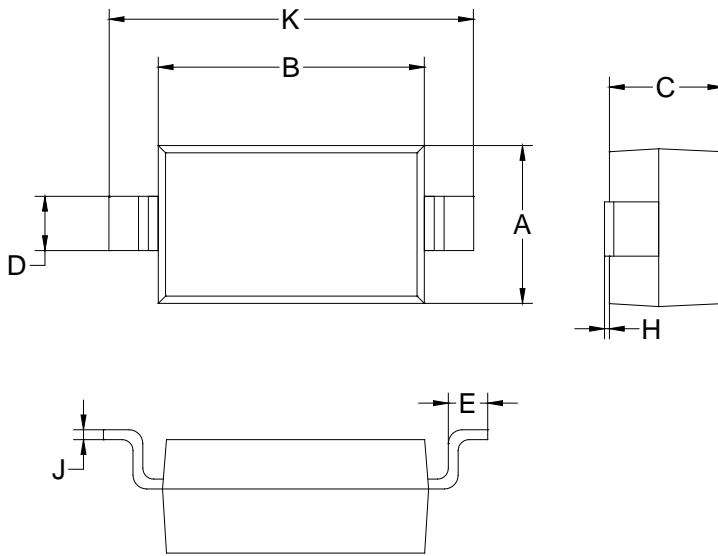
Io-Pf CHARACTERISTICS



## PACKAGE OUTLINE

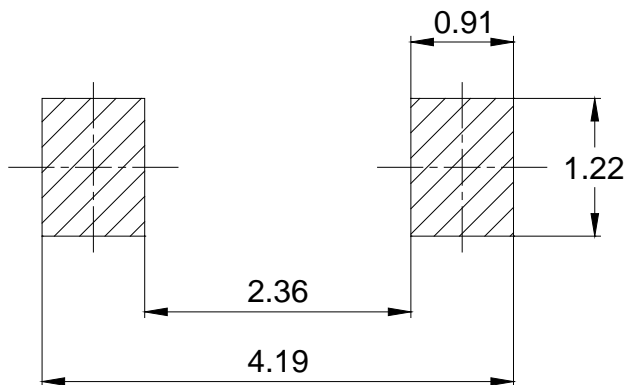
Plastic surface mounted package

SOD-123



SOD-123		
Dim	Min	Max
A	1.45	1.75
B	2.55	2.85
C	1.00	1.30
D	0.50	0.60
E	0.25	0.45
H	0.02	0.10
J	0.05	0.15
K	3.55	3.85
All Dimensions in mm		

## SOLDERING FOOTPRINT



Unit: mm

## PACKAGE INFORMATION

Device	Package	Shipping
RB160M-30	SOD-123	3000pcs / Tape & Reel