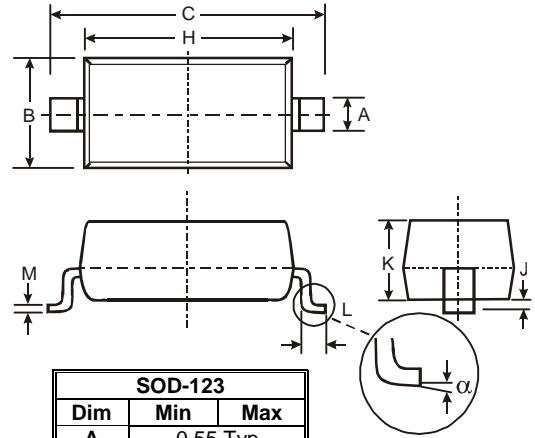


### Features

- Small power mold type. (PMDU)
- Ultra Low  $V_F$
- High reliability



SOD-123		
Dim	Min	Max
A	0.55 Typ	
B	1.40	1.70
C	3.55	3.85
H	2.55	2.85
J	0.00	0.10
K	1.00	1.35
L	0.25	0.40
M	0.10	0.15
$\alpha$	0	8°
All Dimensions in mm		

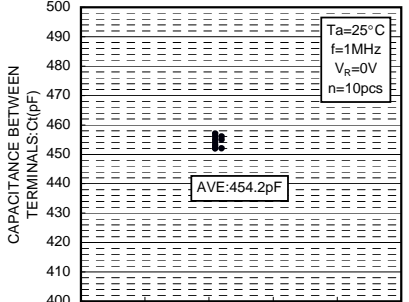
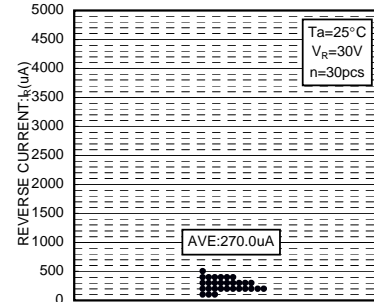
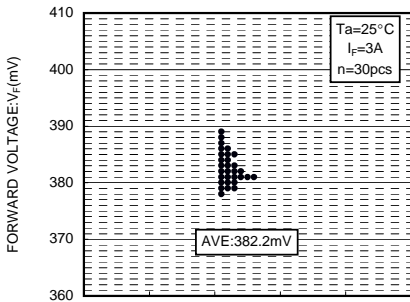
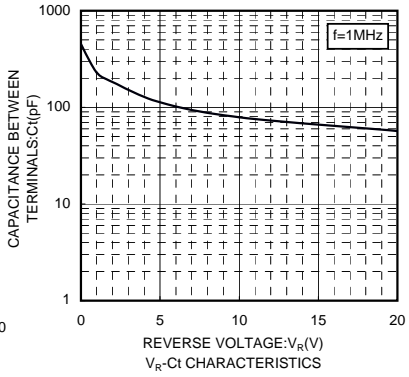
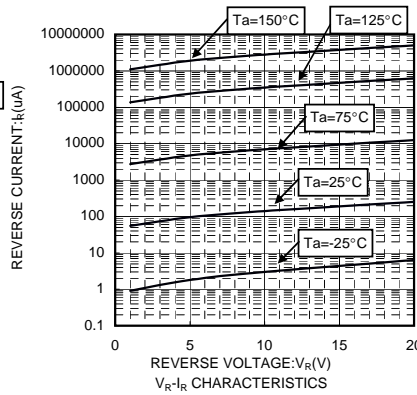
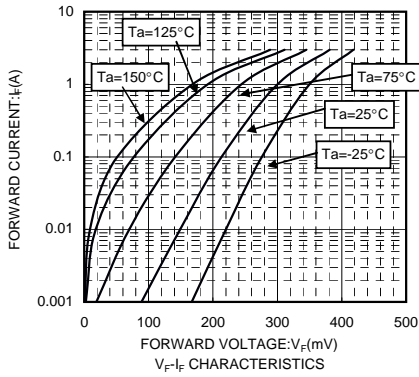
### Mechanical Data

- Case: Molded Plastic

### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits			Unit	
Reverse voltage (repetitive)	$V_{RM}$	20			V	
Reverse voltage (DC)	$V_R$	20			V	
Average rectified forward current(*1)	$I_o$	3			A	
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	30			A	
Junction temperature	$T_j$	125			°C	
Storage temperature	$T_{stg}$	-40 to +125			°C	
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.46	V	$I_F=3A$
Reverse current	$I_R$	-	-	0.9	mA	$V_R=20V$

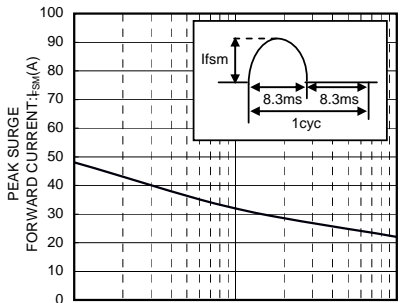
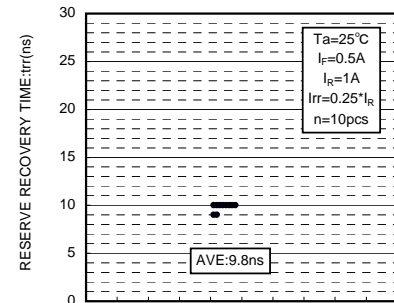
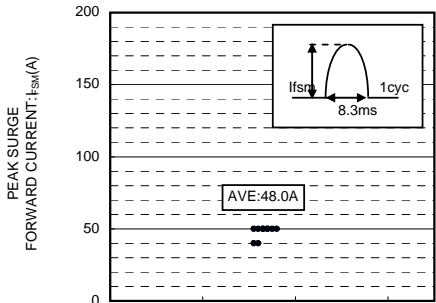
(\*1) Mounting on alumina board.  $T_c=95^\circ\text{C}$  Max.



V<sub>F</sub> DISPERSION MAP

I<sub>R</sub> DISPERSION MAP

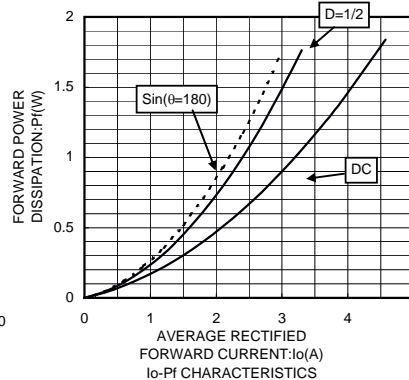
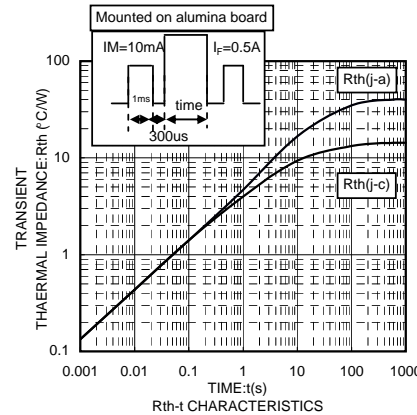
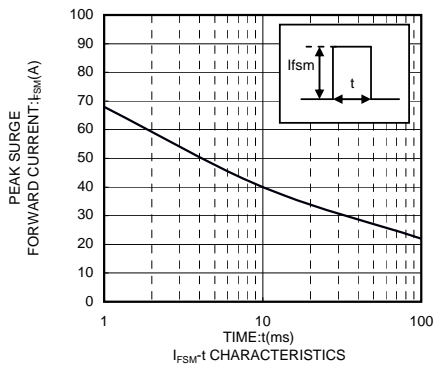
C<sub>t</sub> DISPERSION MAP



I<sub>FSM</sub> DISPERSION MAP

trr DISPERSION MAP

I<sub>FSM</sub>-CYCLE CHARACTERISTICS



I<sub>FSM</sub>-t CHARACTERISTICS

R<sub>th</sub>-t CHARACTERISTICS

I<sub>o</sub>-Pf CHARACTERISTICS

