

# SCHOTTKY BARRIER DIODE

● **Applications**

Low current rectification

● **Features**

Extremely small surface mounting type. (SOD-923)

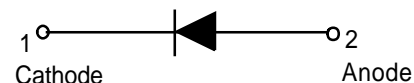
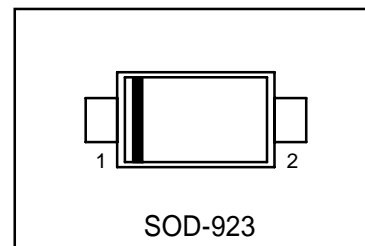
Low  $V_F$

High reliability.

We declare that the material of product compliance with RoHS requirements.

● **Construction**

Silicon epitaxial planar



● **DEVICE MARKING AND ORDERING INFORMATION**

Device	Marking	Shipping
FDR521F	F	8000/Tape&Reel

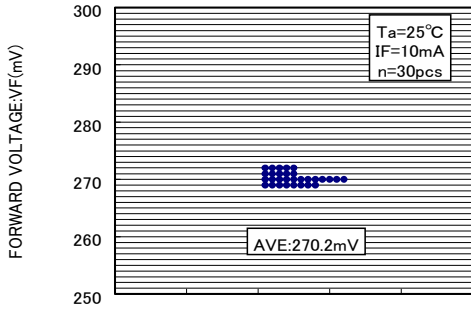
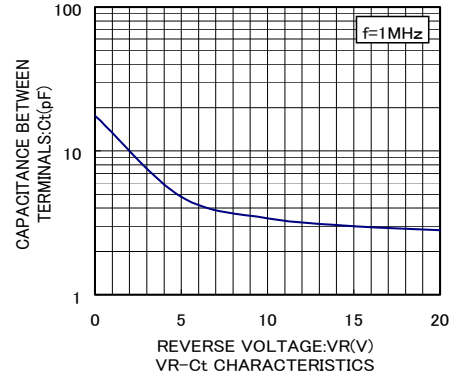
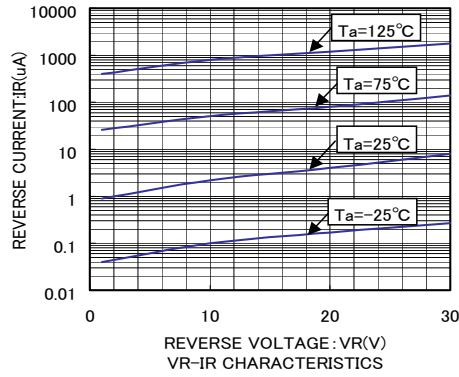
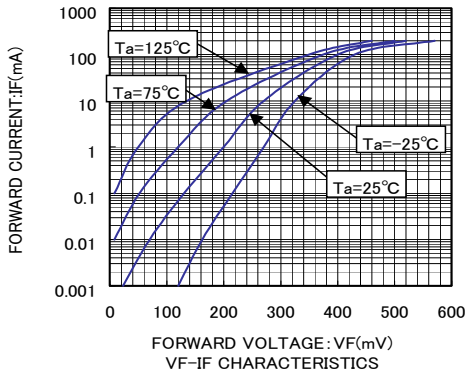
● **Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	100	mA
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	500	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

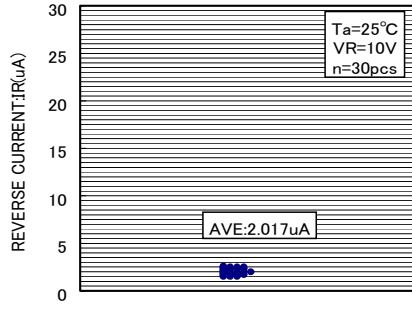
● **Electrical characteristic (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.35	V	$I_F=10mA$
Forward voltage	$V_F$	-	-	0.4	V	$I_F=20mA$
Reverse current	$I_R$	-	-	10	μA	$V_R=10V$

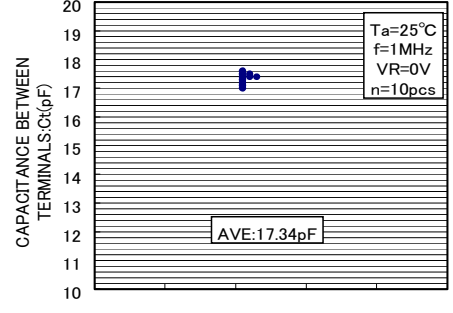
## Electrical characteristic curves



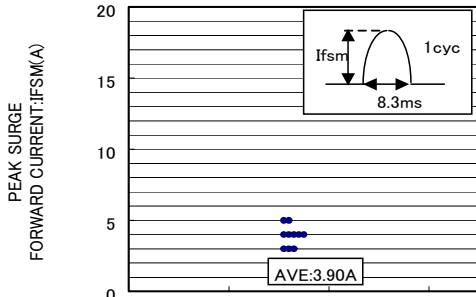
VF DISPERSION MAP



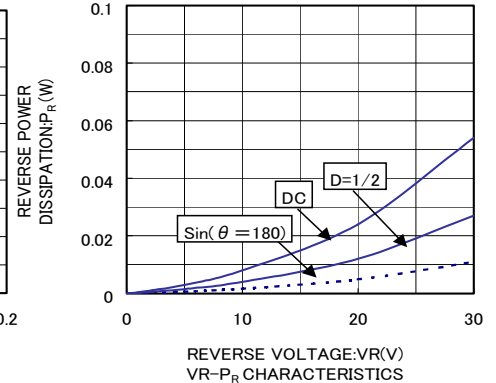
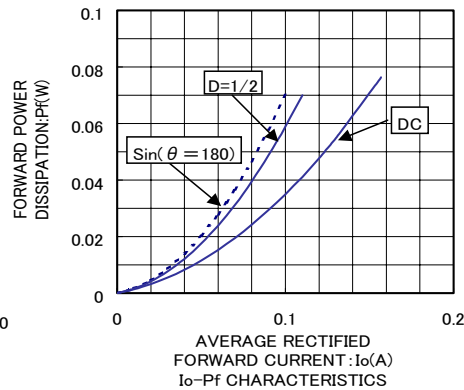
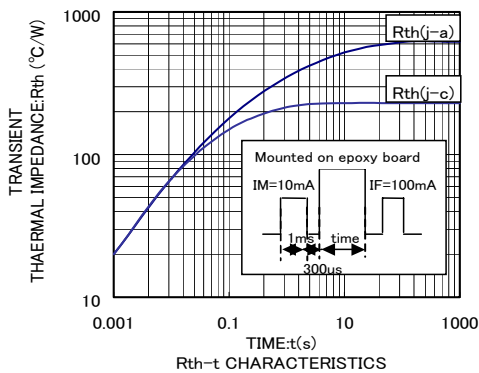
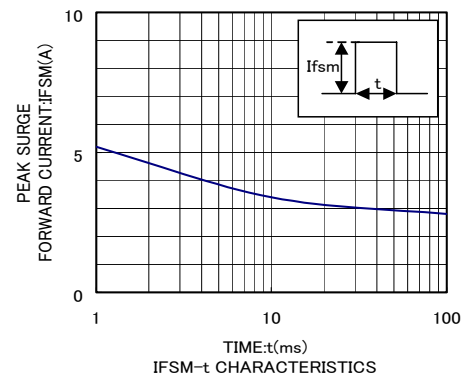
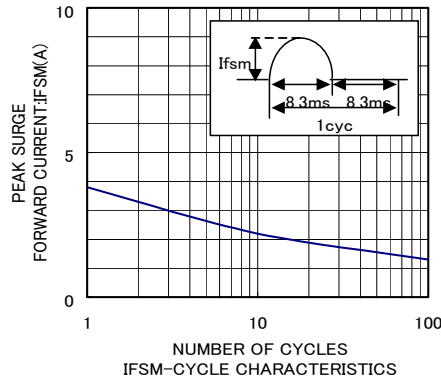
IR DISPERSION MAP



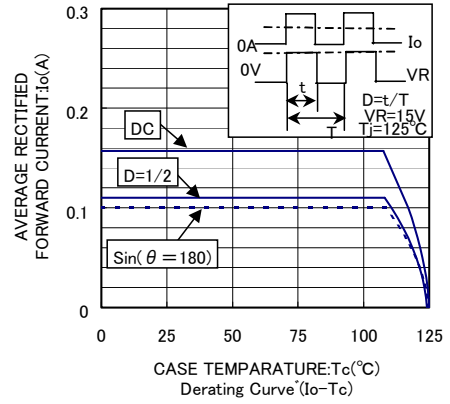
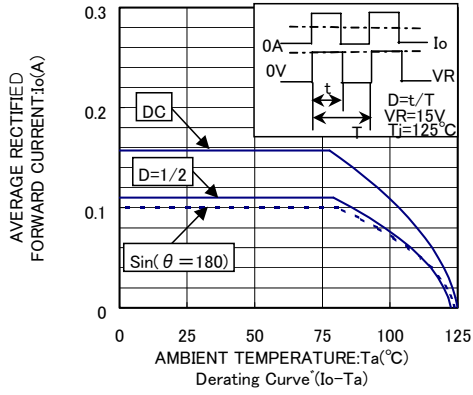
$C_t$  DISPERSION MAP



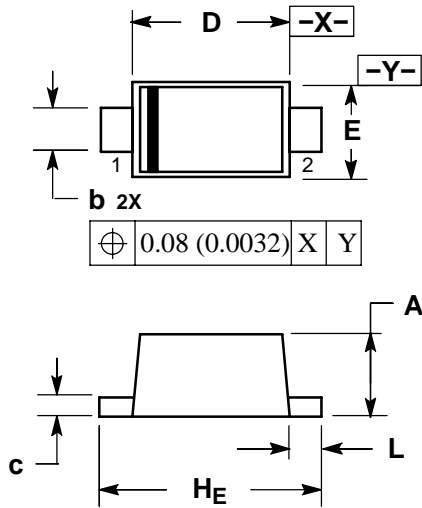
IFSM DISERSION MAP



## Electrical characteristic curves ( $T_a=25^\circ\text{C}$ )

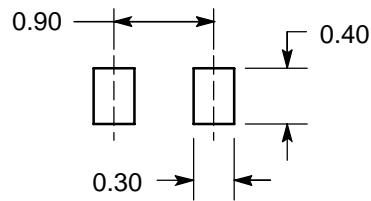


## SOD-923



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.34	0.39	0.43	0.013	0.015	0.017
b	0.15	0.20	0.25	0.006	0.008	0.010
c	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
$H_E$	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006

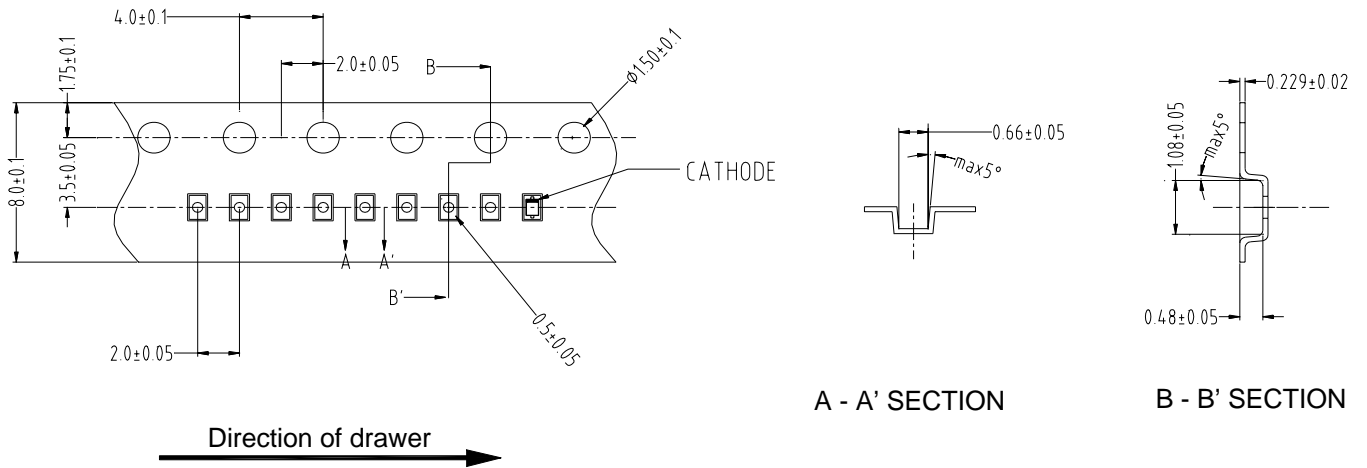
### SOLDERING FOOTPRINT\*



DIMENSIONS: MILLIMETERS

## SOD-923 Tape and Reel

### 1. Dimensions of tape



### 2. Dimensions of reel

Quantity : 8,000pcs/reel

[Unit : mm]

