

# Rectifier diode

## 1SR139-600

### ●Applications

- 1) General rectification

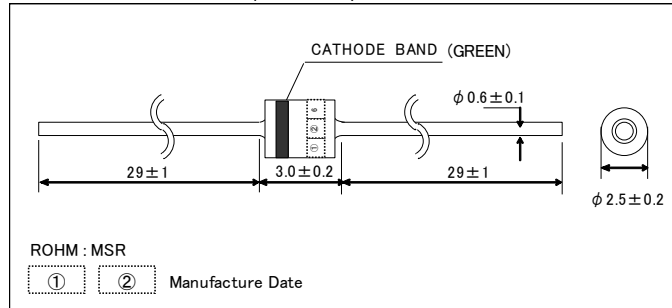
### ●Features

- 1) Cylindrical mold. (MSR)
- 2) High reliability

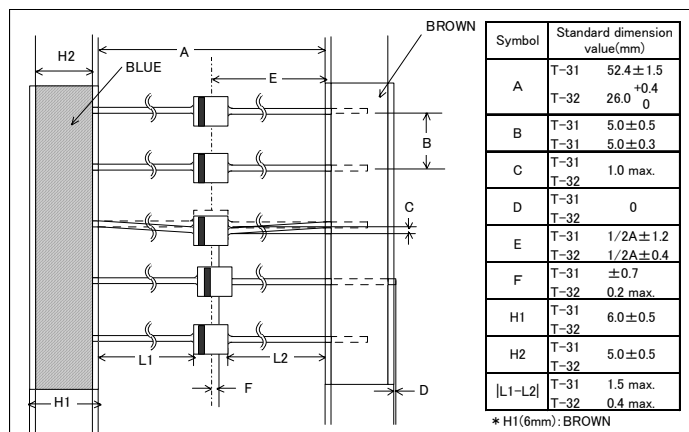
### ●Construction

Silicon epitaxial planar

### ●External dimensions (Unit : mm)



### ●Structure (Unit : mm)



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

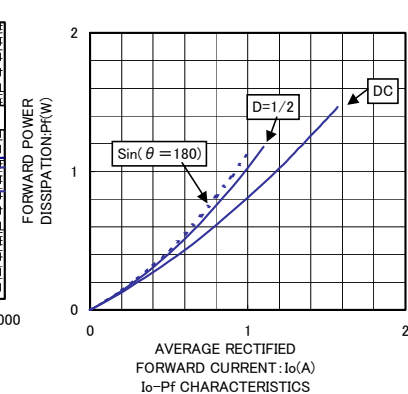
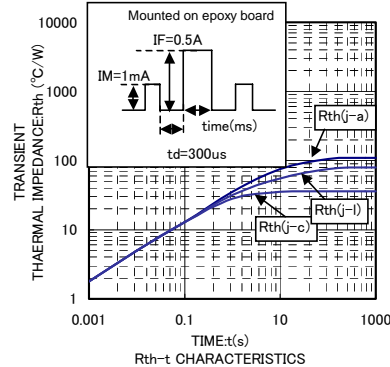
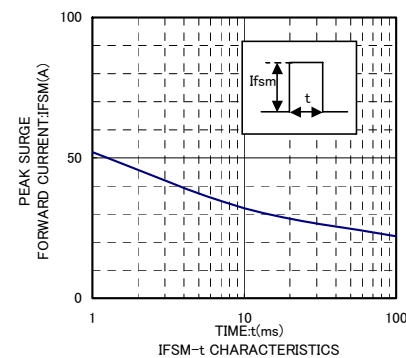
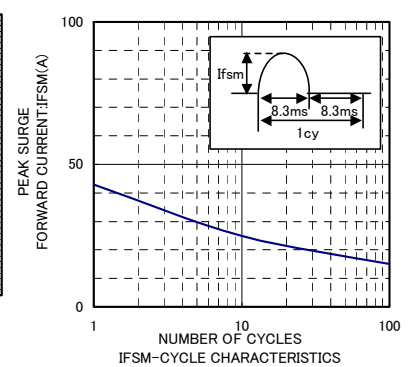
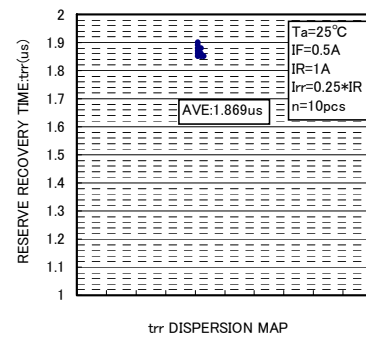
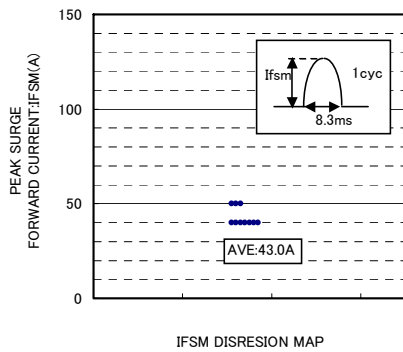
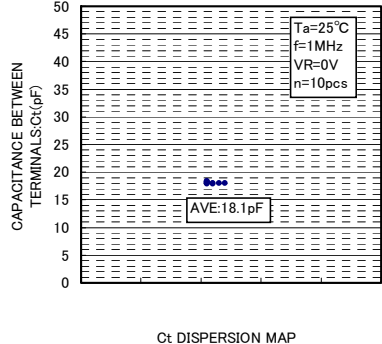
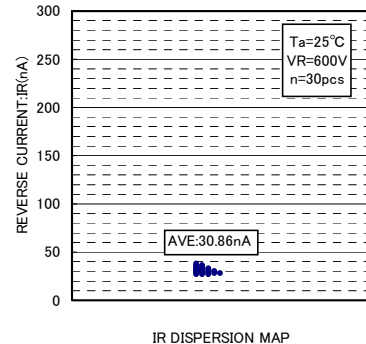
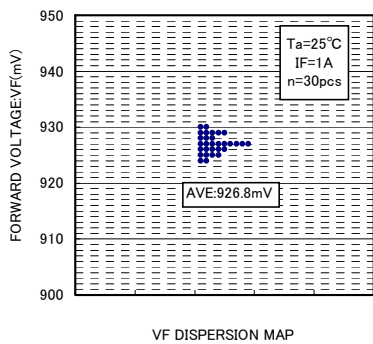
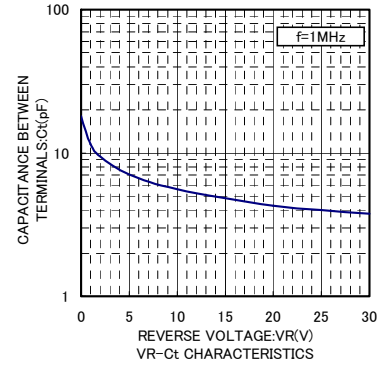
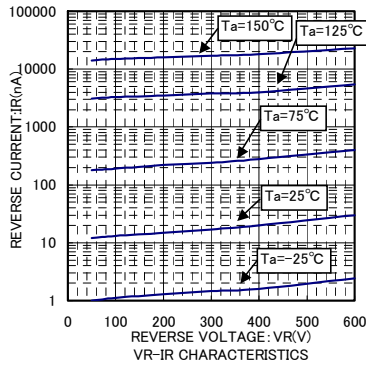
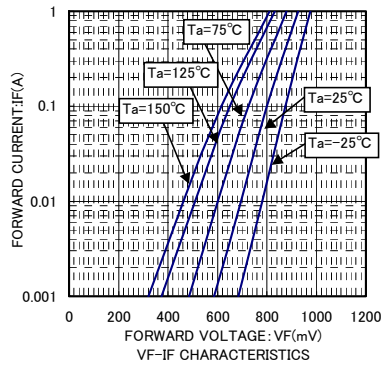
Parameter	Symbol	Limits	Unit
Absolute peak reverse voltage	$V_{RSM}$	750	V
Reverse voltage (repetitive peak)	$V_R$	600	V
Average rectified forward current	$I_o$	1	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	40	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

### ●Electrical characteristics (Ta=25°C)

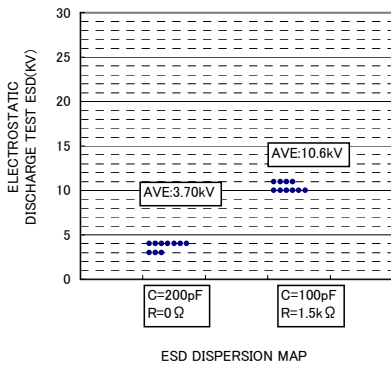
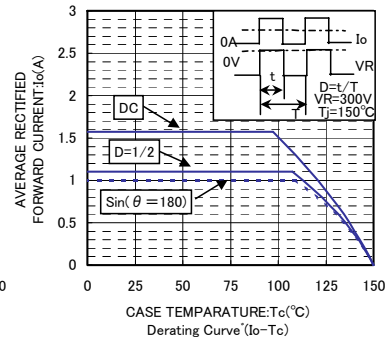
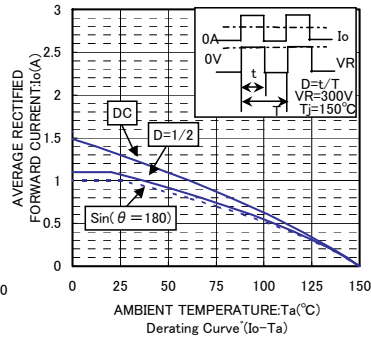
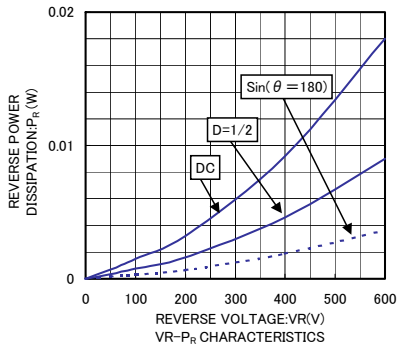
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.1	V	$I_F=1A$
Reverse current	$I_R$	-	-	10	uA	$V_R=600V$

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●Electrical characteristic curves (Ta=25°C)



Diodes



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