

# SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

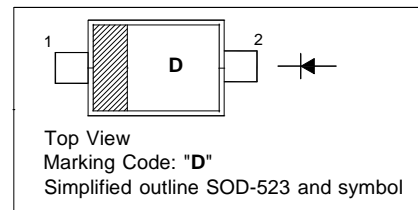
for high speed switching and detection applications

## Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

## PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



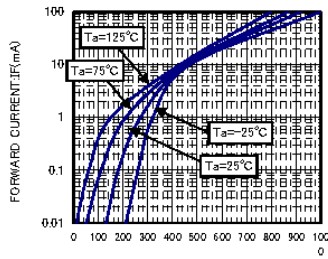
## Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	V
Reverse Voltage	$V_R$	30	V
Mean Rectifying Current	$I_O$	30	mA
Peak Forward Surge Current (60 Hz, 1 Cycle)	$I_{FSM}$	200	mA
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 40 to + 125	$^\circ\text{C}$

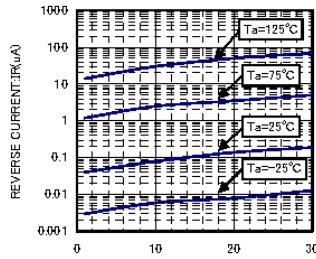
## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$	$V_F$	-	0.37	V
Reverse Current at $V_R = 30\text{ V}$	$I_R$	-	0.5	$\mu\text{A}$
Capacitance Between Terminals at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	2	-	pF

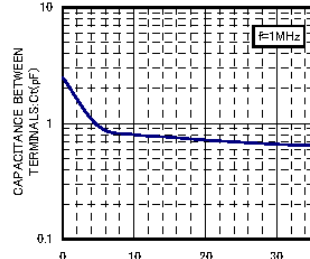
Note: ESD sensitive product handling required.



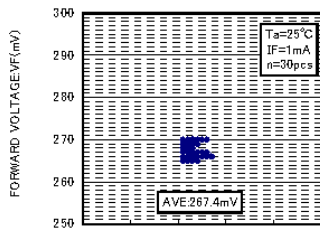
VF-IF CHARACTERISTICS  
VF分布



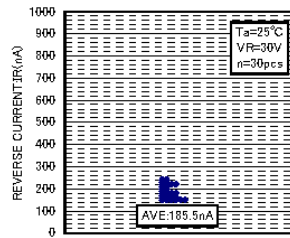
VR-IR CHARACTERISTICS



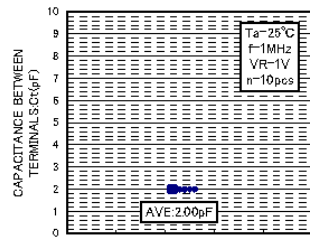
VR-Ct CHARACTERISTICS



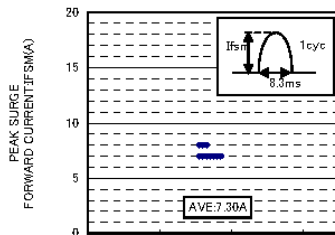
VF DISPERSION MAP



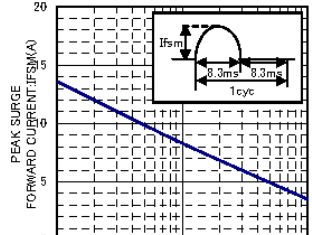
IR DISPERSION MAP



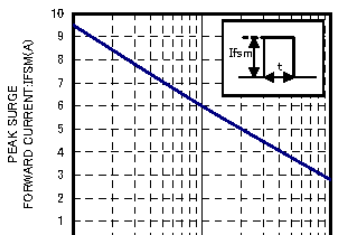
Ct DISPERSION MAP



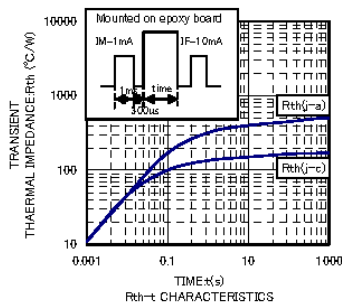
IFSM DISPERSION MAP



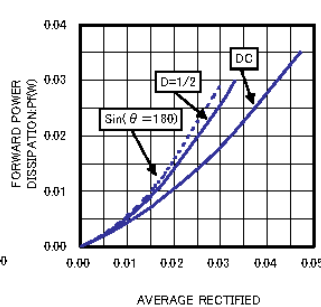
IFSM-CYCLE CHARACTERISTICS



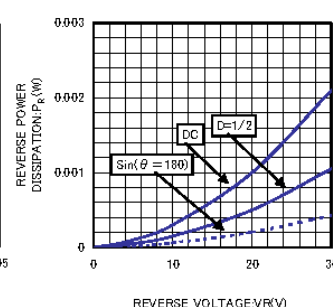
IFSM-t CHARACTERISTICS



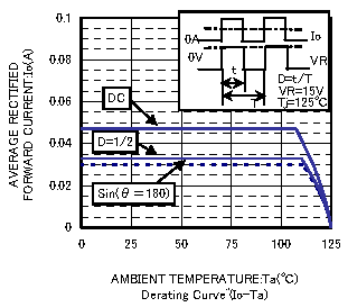
Rth-t CHARACTERISTICS



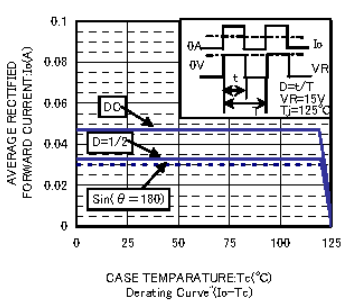
Io-Pf CHARACTERISTICS



VR-Pk CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve (Io-Tc)

## **PACKAGE OUTLINE**

**SOD-523**

**Plastic surface mounted package; 2 leads**

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