

RB521S-40

SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

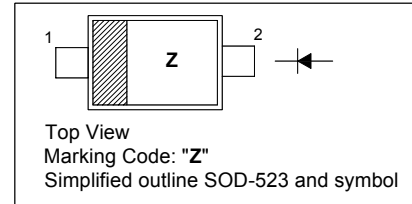
for rectifying small power applications

Features

- Ultra small mold type
- Low forward voltage
- High reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

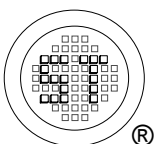


Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Mean Rectifying Current	I_O	200	mA
Peak Forward Surge Current (60Hz for Cyc.)	I_{FSM}	1	A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 10\text{ mA}$ at $I_F = 100\text{ mA}$ at $I_F = 200\text{ mA}$	V_F	0.16 0.31 0.41	0.3 0.45 0.54	V
Reverse Current at $V_R = 10\text{ V}$ at $V_R = 40\text{ V}$	I_R	- -	20 90	μA



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ISO/TS 16949 : 2002
Certificate No. 05103



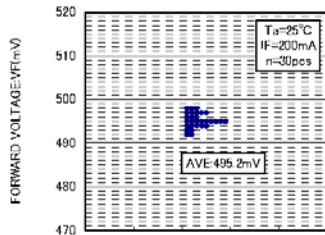
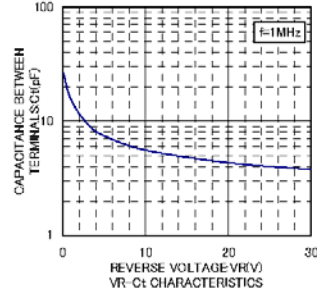
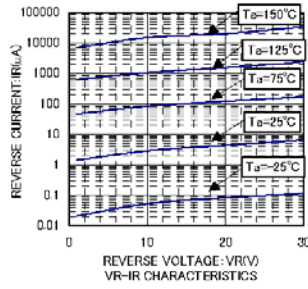
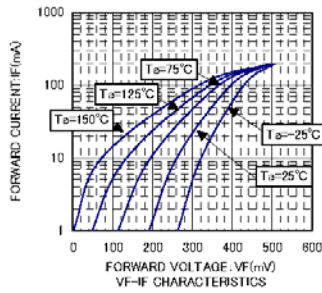
ISO 14001:2004
Certificate No. 7116



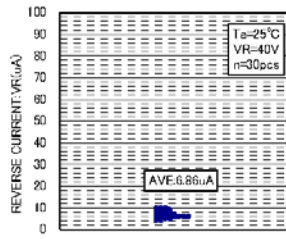
ISO 9001:2000
Certificate No. 0506098

Dated : 30/01/2007

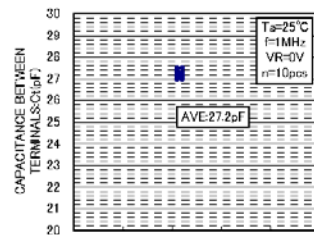
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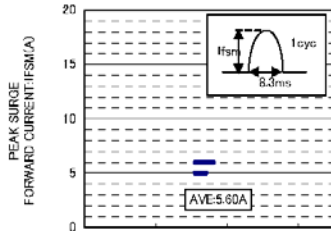
VF DISPERSION MAP



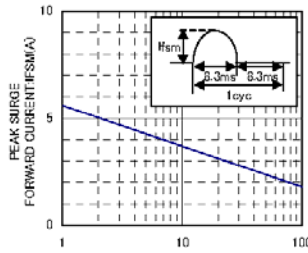
IR DISPERSION MAP



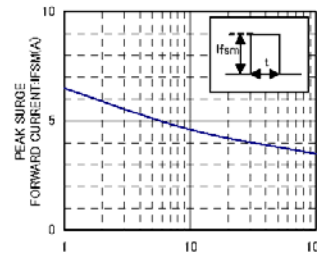
Ct DISPERSION MAP



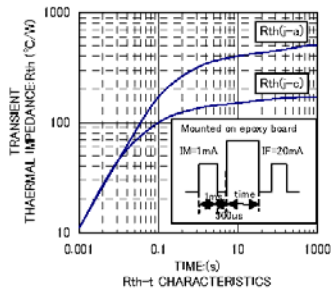
IFSM DISPERSION MAP



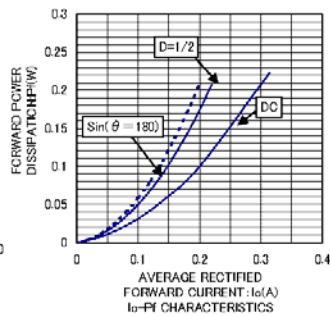
IFSM-CYCLE CHARACTERISTICS



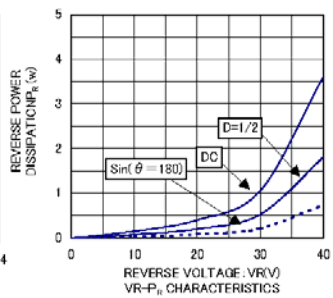
IFSM-t CHARACTERISTICS



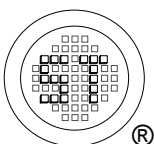
Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



VR-Prr CHARACTERISTICS



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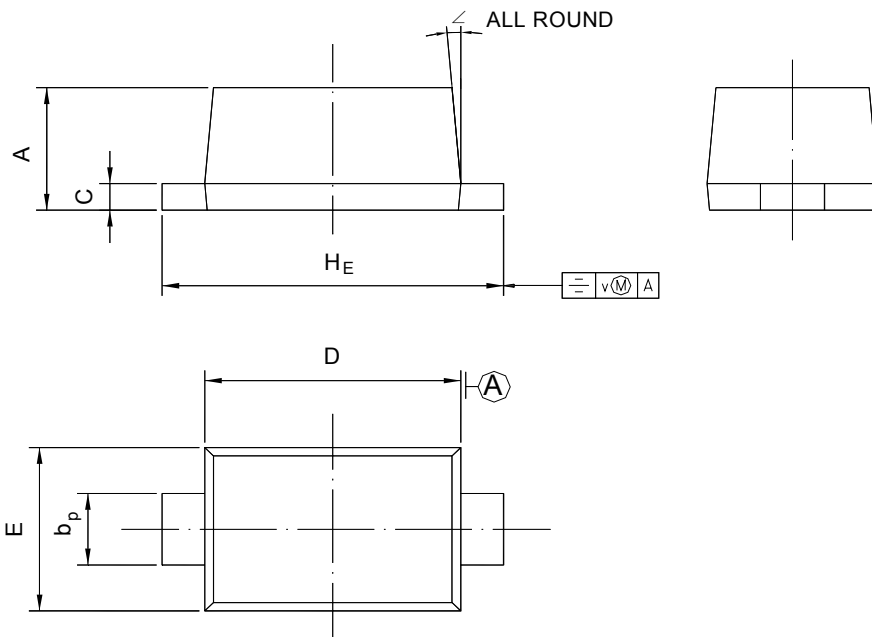
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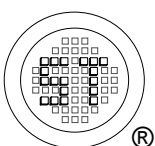
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.127	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°



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