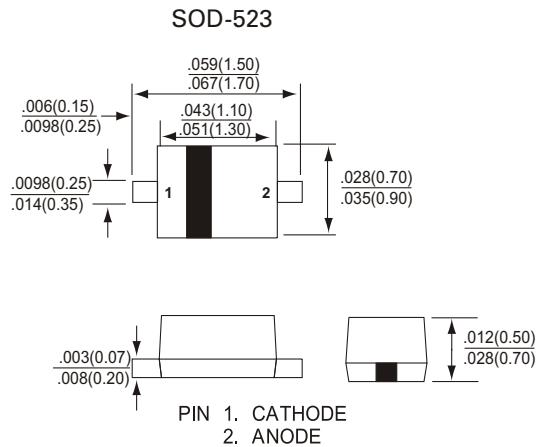


PSD520S-40

SURFACE MOUNT SCHOTTKY BARRIER DIODES

SMALL SIGNAL SCHOTTKY DIODES 200m AMPERES 40 VOLTS



FEATURES

- Extremely High Switching Speed
- Low Forward Voltage and Low Reverse Current
- High Reliability.
- Schottky Barrier Diodes Encapsulated in a SOD-523 Package

DESCRIPTION

These schottky barrier diodes are designed for high speed Switching applications circuit protection, and voltage clamping, Extremely low forward voltage reduces conduction loss, Miniature surface mount package is excellent for hand held and Portable applications where space is limited

MAXIMUM RATING (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Value	Unit
Reverse Voltage	V _R	40	V
Average Rectifier Forward Current	I _{F(AV)}	200	mA
Peak Forward Surge Current ⁽¹⁾	I _{FSM}	1.0	A
Operating Junction Temperature Range	T _J	125	°C
Storage Temperature Range	T _{stg}	-40 to +125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage I _R = 100μA	V (BR)R	40	-	V
Forward Voltage I _F = 10mA	V _F	-	0.39	V
Reverse Leakage V _R = 10V	I _R	-	1.0	μA

NOTE: 1. 60HZ for 1 μ s

Device Marking

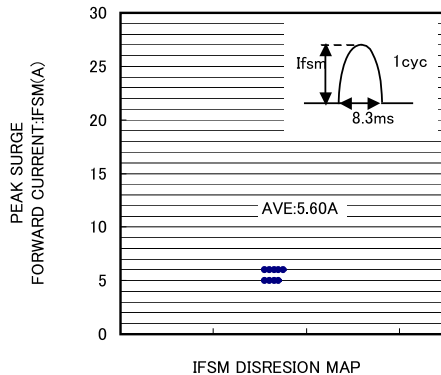
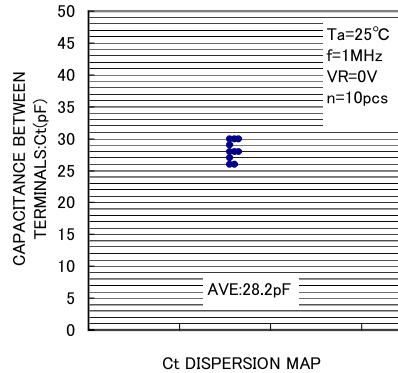
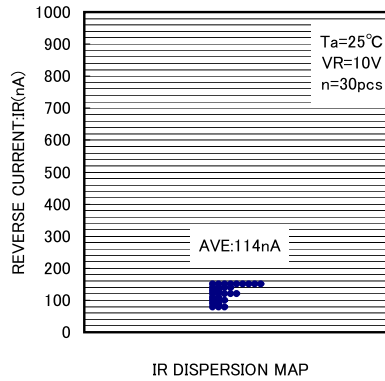
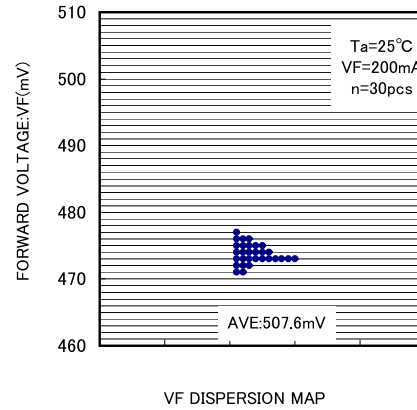
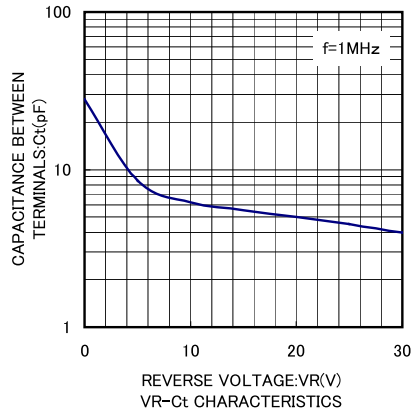
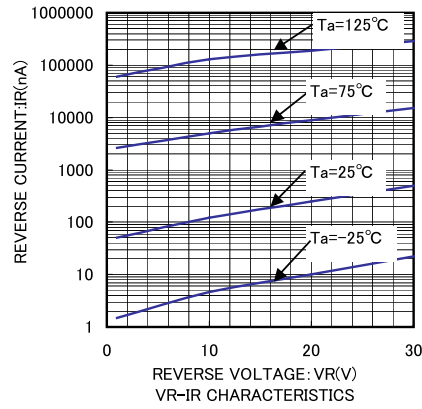
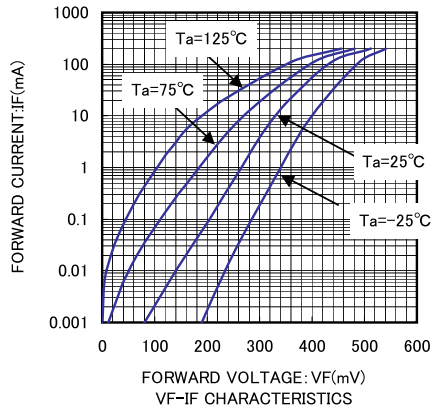
Item	Equivalent Circuit diagram
PSD520S-40	1 ○ ——— <————○ 2

PSD520S-40

SURFACE MOUNT SCHOTTKY BARRIER DIODES

RATING AND CHARACTERISTICS CURVES PSD520S-40

Electrical characteristic curves



PSD520S-40

SURFACE MOUNT SCHOTTKY BARRIER DIODES

RATING AND CHARACTERISTICS CURVES PSD520S-40

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

