

Schottky Rectifier - 0.75Amp 40Volt

Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- For use in low voltage high frequency inverters, free wheeling and polarity protection application
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- ESD sensitive product handling required

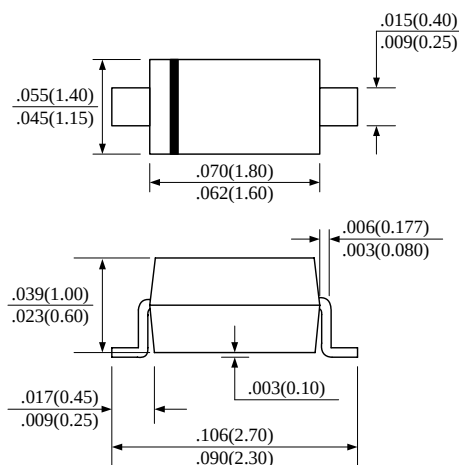
Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end

Maximum ratings and Electrical characteristics

TYPE	SYMBOL	CH520S-30PT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	40	V
Maximum RMS Voltage	VRMS	28	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Forward Rectified Current	IO	0.75	A
Peak Forward surge Current, 8.3ms single half sine-wave	IFSM	2.5	A
Maximum Instantaneous Forward Voltage	VF	IF = 100mA 0.38	V
		IF = 750mA 0.58	
Maximum Average Reverse Current at VR = 30V	IR	50	μA
Typical Junction Capacitance between Terminal (Note 1)	CJ	12.0	pF
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	TSTG	-65 - 150	°C

SOD-323



Note: Measured at 1.0 MHz and applied reverse voltage of 10.0 volts

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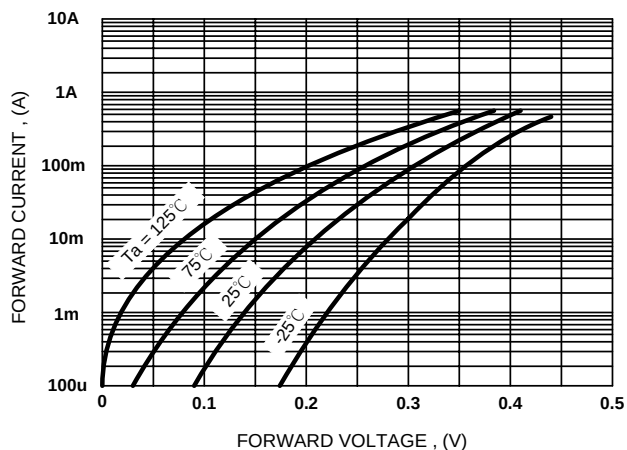


Figure 1. Forward Characteristics

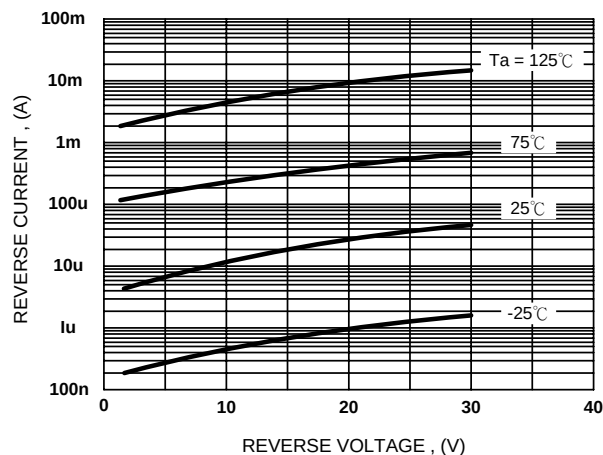


Figure 2. Reverse Characteristics

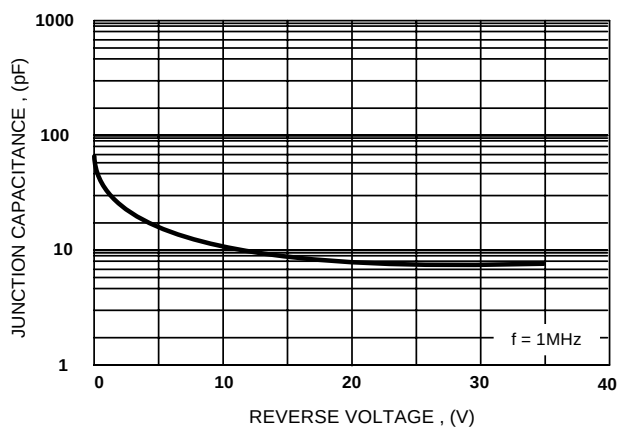


Figure 3. Typical Junction Capacitance

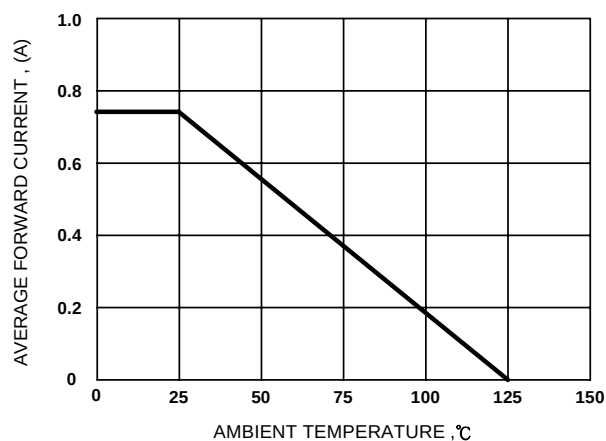


Figure 4. Forward Current Derating Curve