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SMD Schottky Barrier Diode

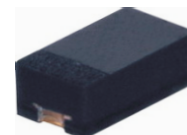


CDBU0520

Io = 500 mA

VR = 20 Volts

RoHS Device

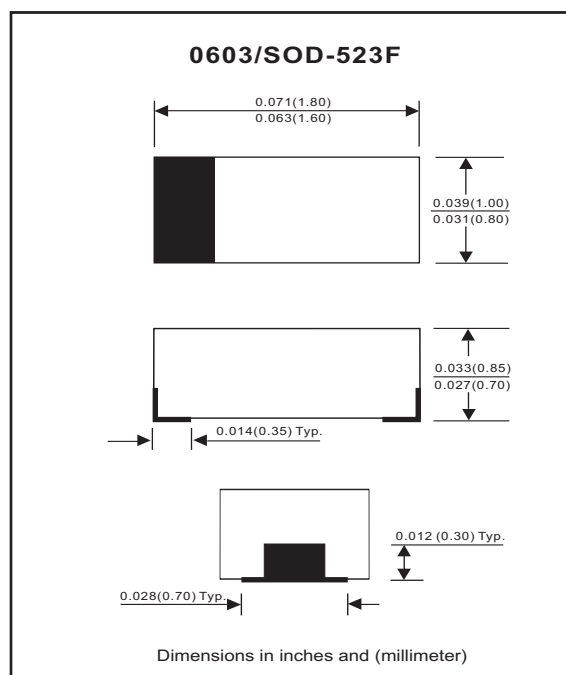


Features

- Low forward voltage.
- Designed for mounting on small surface.
- Extremely thin / leadless package.
- Majority carrier conduction.

Mechanical data

- Case: 0603/SOD-523F standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any
- Weight: 0.003 gram(approx.).



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		VRM			30	V
Reverse voltage		VR			20	V
Average forward rectified current		Io			0.5	A
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	IFSM			2	A
Storage temperature		TSTG	-40		+125	°C
Junction temperature		Tj			+125	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	IF = 100mA IF = 500mA	VF			0.36 0.47	V
Reverse current	VR = 20V	IR			100	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	CT		100		pF

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RATING AND CHARACTERISTIC CURVES (CDBU0520)

Fig. 1 - Forward characteristics

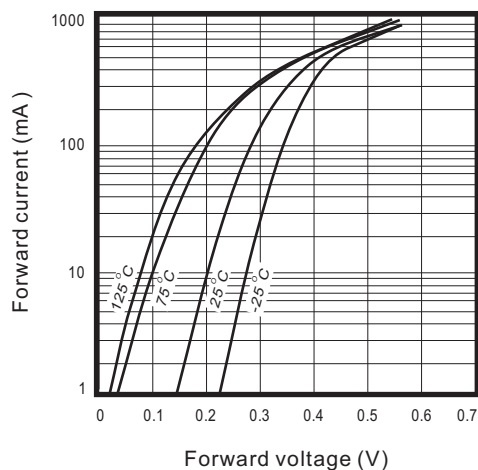


Fig. 2 - Reverse characteristics

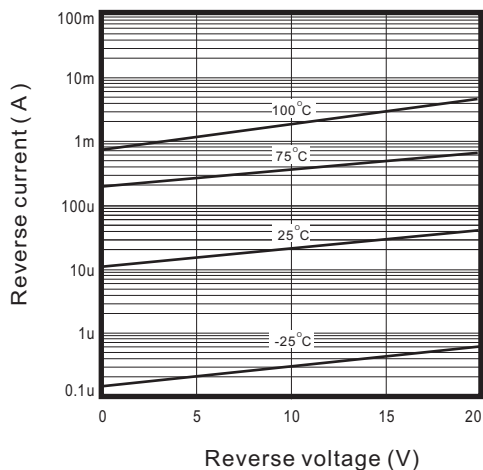


Fig. 3 - Capacitance between terminals characteristics

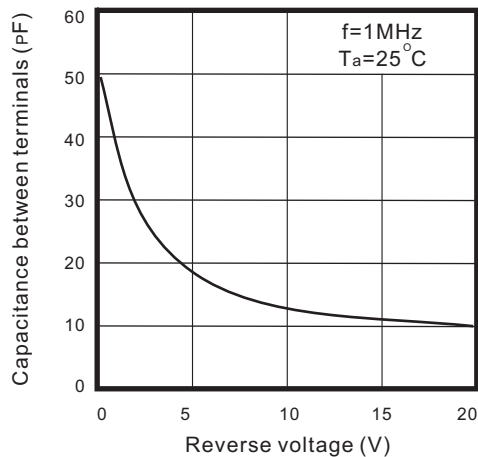


Fig.4 - Current derating curve

