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SMD Schottky Barrier Diode

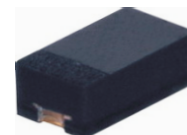


CDBU40

Io = 200 mA

VR = 40 Volts

RoHS Device

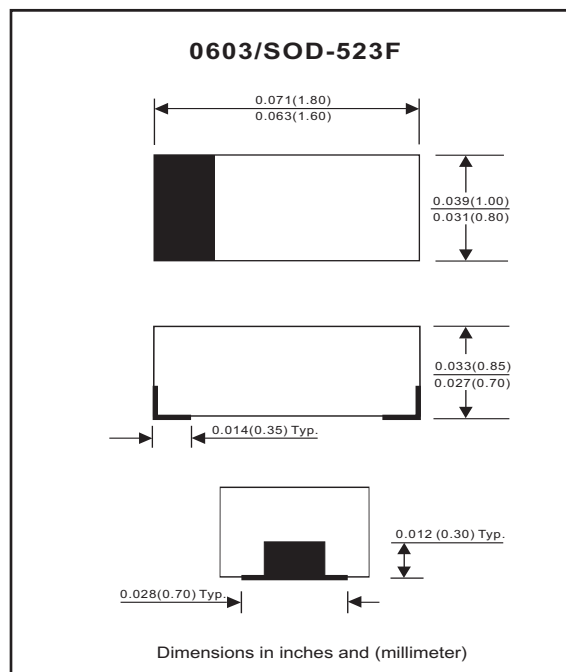


Features

- 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			40	V
Reverse voltage		VR			40	V
RMS reverse voltage		VR(RMS)			28	V
Average forward rectified current		Io			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	IFSM			0.6	A
Power dissipation		PD			150	mW
Storage temperature		TSTG	-65		+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 = 1mA IF = 40mA	VF			0.38 1	V
Reverse current	VR = 30V	IR			0.2	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	CT			5	pF
Reverse recovery time	IF=IR=10mA,Irr=0.1xIR,RL=100 ohm	Trr			5	nS

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RATING AND CHARACTERISTIC CURVES (CDBU40)

Fig. 1 - Forward characteristics

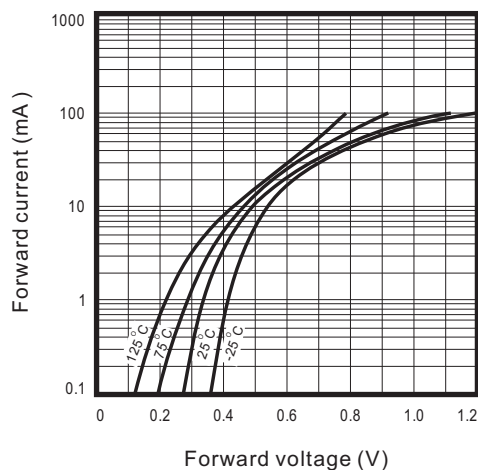


Fig. 2 - Reverse characteristics

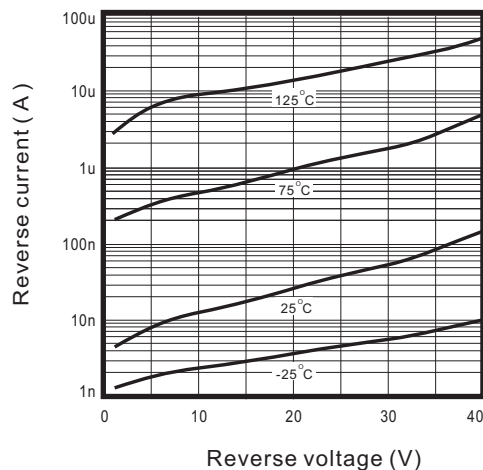


Fig.3 - Capacitance between terminals characteristics

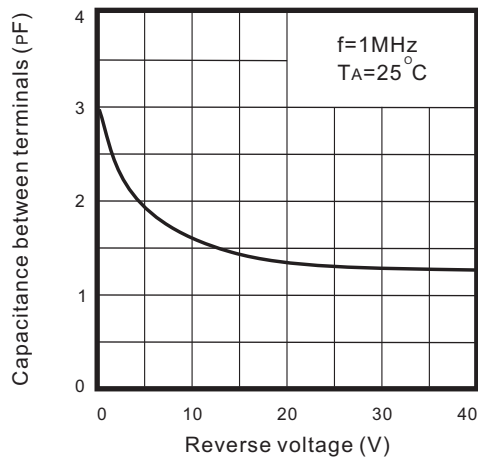


Fig.4 - Current derating curve

