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SMD Schottky Barrier Diode



CDBU0230

$I_o = 200 \text{ mA}$

$V_R = 30 \text{ Volts}$

RoHS Device

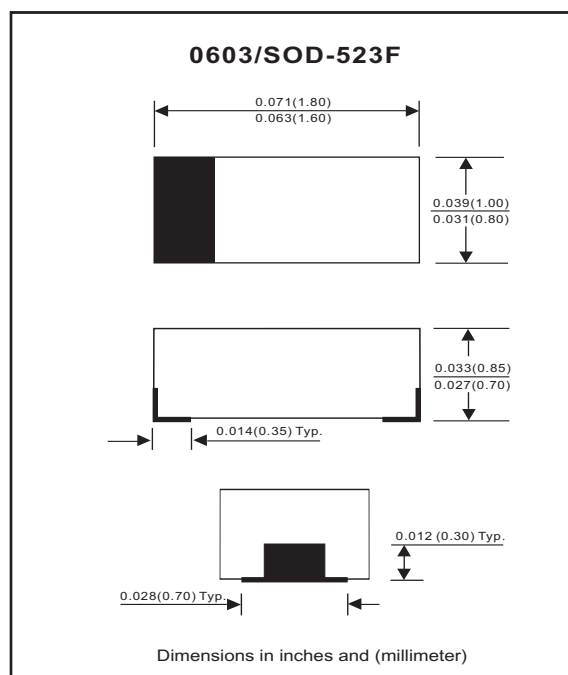


Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Low drop-down voltage.
- 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 $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			35	V
Reverse voltage		V_R			30	V
Average forward current		I_o			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I_{FSM}		3000		mA
Power Dissipation		P_D			150	mW
Snction temperature		T_{STG}	-40		+125	$^{\circ}\text{C}$
Junction temperature		T_j			+125	$^{\circ}\text{C}$

Electrical Characteristics (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 200 \text{ mA DC}$	V_F			0.50	V
Reverse current	$V_R = 30\text{V}$	I_R			30	μA
Capacitance between terimnals	$F = 1 \text{ MHZ}$ and 10 VDC reverse voltage	C_T		9		pF

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RATING AND CHARACTERISTIC CURVES (CDBU0230)

Fig. 1 - Forward characteristics

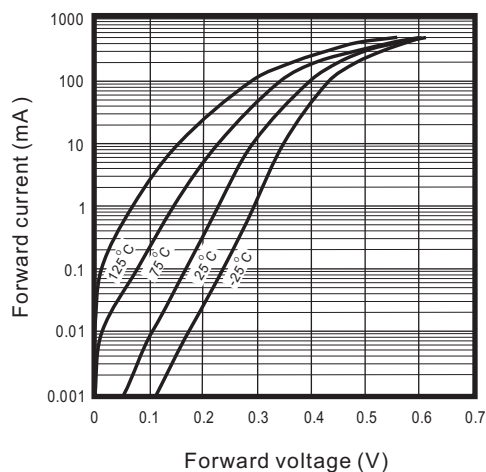


Fig. 2 - Reverse characteristics

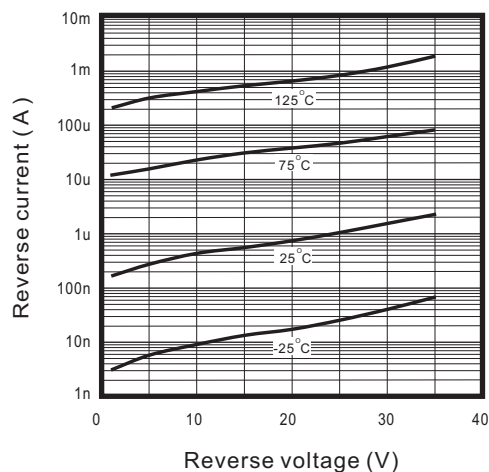


Fig.3 - Capacitance between terminals characteristics

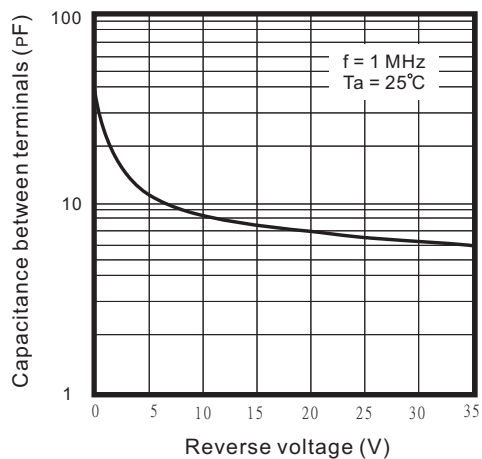


Fig.4 - Current derating curve

