

CDBU40

Io = 200 mA

VR = 40 Volts

RoHS Device

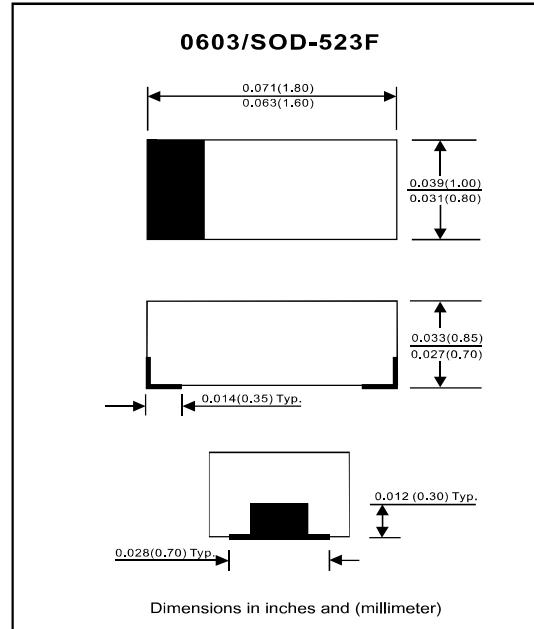


Features

- 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		V _{RM}			40	V
Reverse voltage		V _R			40	V
RMS reverse voltage		V _{R(RMS)}			28	V
Average forward rectified current		I _o			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I _{FSM}			0.6	A
Power dissipation		P _D			150	mW
Storage temperature		T _{STG}	-65		+125	°C
Junction temperature		T _j			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 1mA I _F = 40mA	V _F			0.38 1	V
Reverse current	V _R = 30V	I _R			0.2	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C _T			5	pF
Reverse recovery time	I _F =I _R =10mA,I _{RR} =0.1xI _R ,RL=100 ohm	T _{rr}			5	nS

RATING AND CHARACTERISTIC CURVES (CDBU40)

Fig. 1 - Forward characteristics

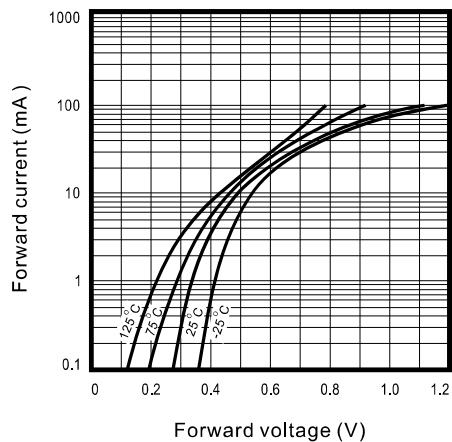


Fig. 2 - Reverse characteristics

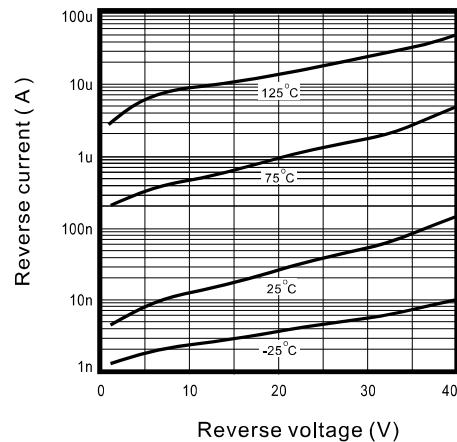


Fig.3 - Capacitance between terminals characteristics

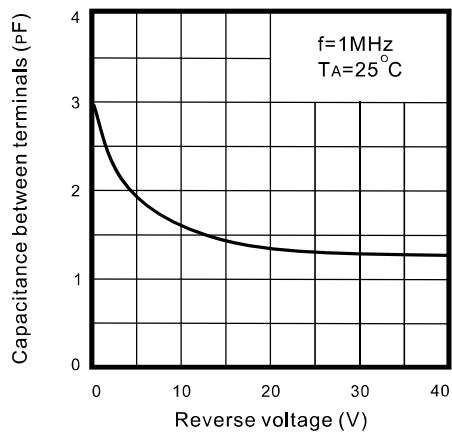


Fig.4 - Current derating curve

