

## CDBU40

**Io = 200 mA**

**VR = 40 Volts**

**RoHS Device**

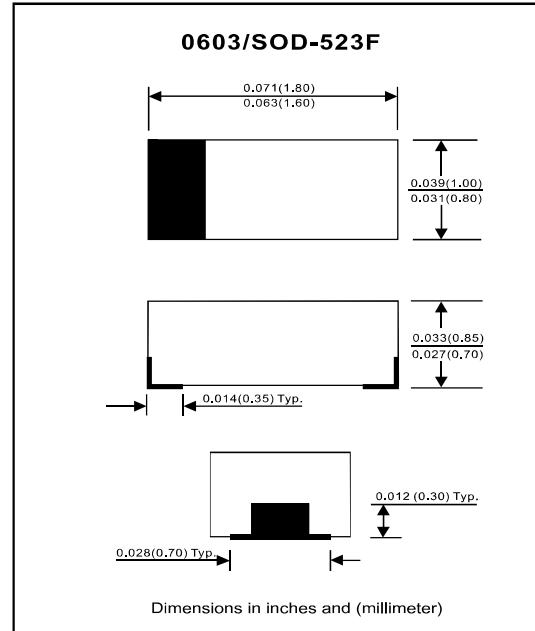


### Features

- 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 <sub>RM</sub>			40	V
Reverse voltage		V <sub>R</sub>			40	V
RMS reverse voltage		V <sub>R(RMS)</sub>			28	V
Average forward rectified current		I <sub>o</sub>			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I <sub>FSM</sub>			0.6	A
Power dissipation		P <sub>D</sub>			150	mW
Storage temperature		T <sub>STG</sub>	-65		+125	°C
Junction temperature		T <sub>j</sub>			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I <sub>F</sub> = 1mA I <sub>F</sub> = 40mA	V <sub>F</sub>			0.38 1	V
Reverse current	V <sub>R</sub> = 30V	I <sub>R</sub>			0.2	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C <sub>T</sub>			5	pF
Reverse recovery time	I <sub>F</sub> =I <sub>R</sub> =10mA,I <sub>RR</sub> =0.1xI <sub>R</sub> ,RL=100 ohm	T <sub>rr</sub>			5	nS

## RATING AND CHARACTERISTIC CURVES (CDBU40)

Fig. 1 - Forward characteristics

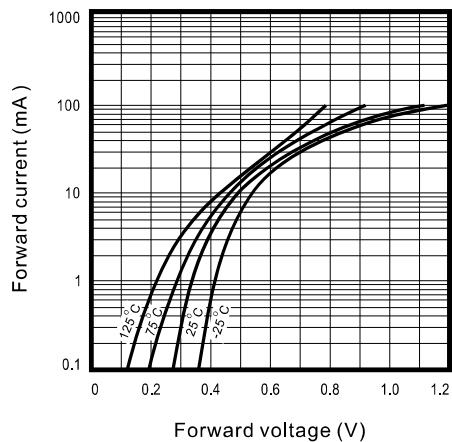


Fig. 2 - Reverse characteristics

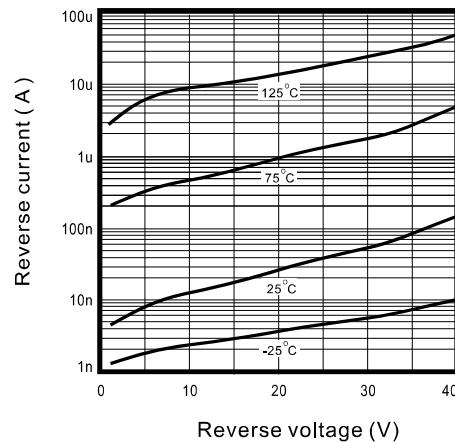


Fig.3 - Capacitance between terminals characteristics

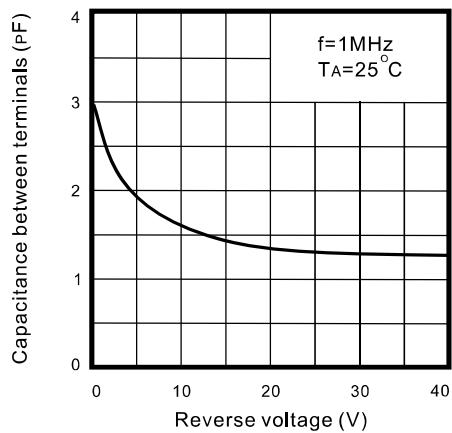


Fig.4 - Current derating curve

