

## CDBU54

**I<sub>o</sub> = 200 mA**

**V<sub>R</sub> = 30 Volts**

**RoHS Device**

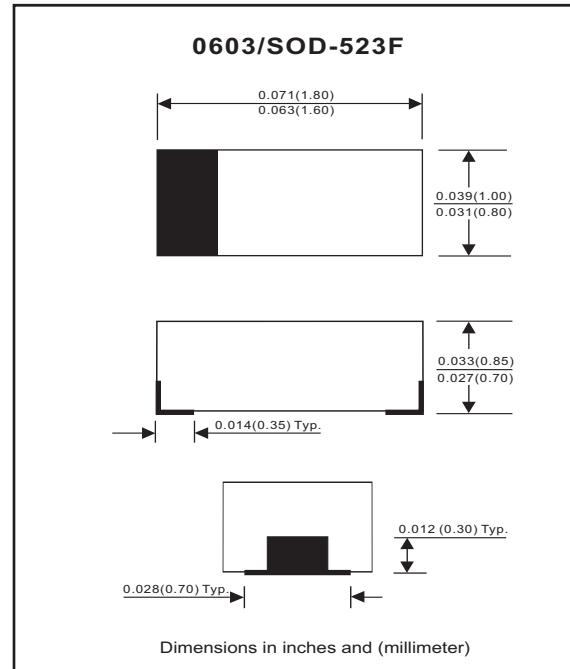


### Features

- 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>			30	V
Reverse voltage		V <sub>R</sub>			30	V
RMS reverse voltage		V <sub>R</sub> (RMS)			21	V
Average forward rectified current		I <sub>o</sub>			200	mA
Repetitive peak forward current		I <sub>FPM</sub>			0.3	A
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>TG</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> = 0.1mA I <sub>F</sub> = 1mA I <sub>F</sub> = 10mA I <sub>F</sub> = 30mA I <sub>F</sub> = 100mA	V <sub>F</sub>			0.24 0.32 0.4 0.5 1	V
Reverse current	V <sub>R</sub> = 25V	I <sub>R</sub>			2	uA
Capacitance between terminals	f = 1 MHz, and 1 VDC reverse voltage	C <sub>T</sub>			10	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 (CDBU54)

Fig. 1 - Forward characteristics

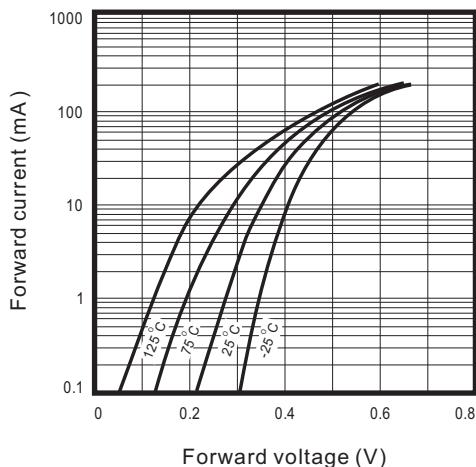


Fig. 2 - Reverse characteristics

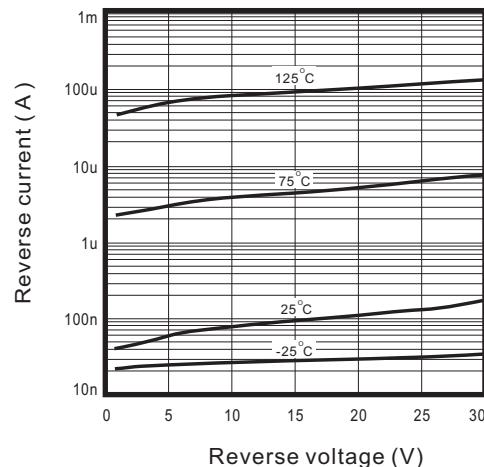


Fig.3 - Capacitance between terminals characteristics

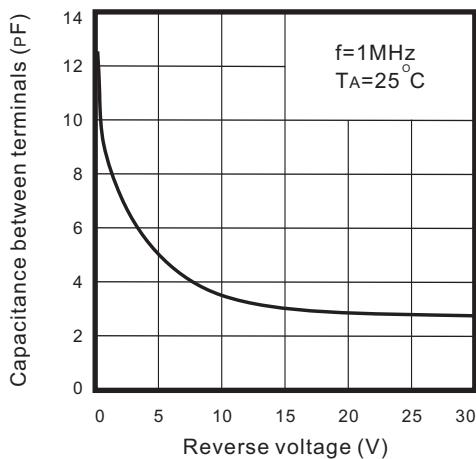


Fig.4 - Current derating curve

