

CDBV6-54T/AD/CD/SD/BR-G

Forward Current: 0.2A

Reverse Voltage: 30V

RoHS Device

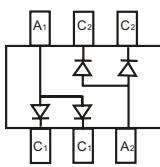
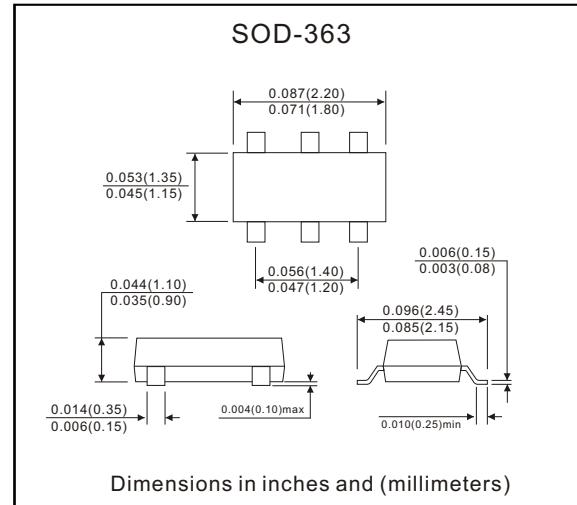


Features

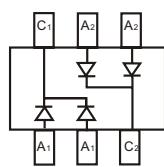
- Low forward voltage drop.
- Fast switching.
- Ultra-small surface mount package.
- PN junction guard ring for transient and ESD protection.
- Available in lead Free version.

Mechanical data

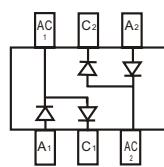
- Case: SOD-323, Molded Plastic
- Case material: UL 94V-0 flammability retardant classification.
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Orientation: See diagrams below
- Weight: 0.006 grams (approx.)
- Marking: See diagrams below



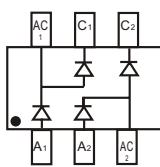
CDBV6-54AD-G*
Marking: KL6



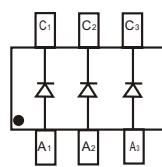
CDBV6-54CD-G*
Marking: KL7



CDBV6-54SD-G*
Marking: KL8



CDBV6-54BR-G
Marking: KLB



CDBV6-54T-G
Marking: KLA

*Symmetrical configuration, no orientation indicator.

Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	30	V
Forward continuous current (Note 1)	I _F	200	mA
Repetitive peak forward current (Note 1)	I _{FRPM}	300	mA
Forward surge current (Note 1) @t<1.0s	I _{FSM}	600	mA
Power dissipation (Note 1)	P _D	200	mW
Thermal resistance, junction to ambient air (Note 1)	R _{θJA}	625	°C/W
Operation and storage temperature range	T _J , T _{STG}	-65 ~ +125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse breakdown voltage (Note 2)	I _R =100μA	V _{(BR)R}	30			V
Forward voltage	I _F =0.1mA I _F =1mA I _F =10mA I _F =30mA I _F =100mA	V _F			240 320 400 500 1000	mV
Reverse leakage current (Note 2)	V _R =25V	I _R			2	μA
Total capacitance	V _R =1.0V, f=1.0MHz	C _T			10	pF
Reverse recovery time	I _F =I _R =10mA to I _R =1.0mA, R _L =100Ω	trr			5	nS

Notes:

1. Device mounted on FR-4 PCB, 1×0.85×0.062 inch.
2. Short duration test pulse used to minimize self-heating effect.

SMD Schottky Barrier Diode Arrays

COMCHIP
SMD Diodes Specialist

ELECTRICAL CHARACTERISTIC CURVES (CDBV6-54T/AD/CD/SD/BR-G)

Fig.1 Forward Characteristics

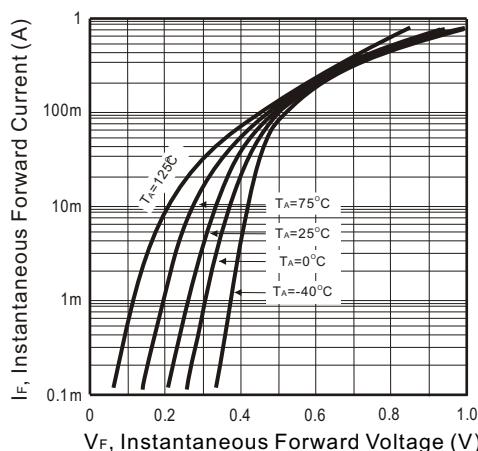


Fig.2 Reverse Characteristics

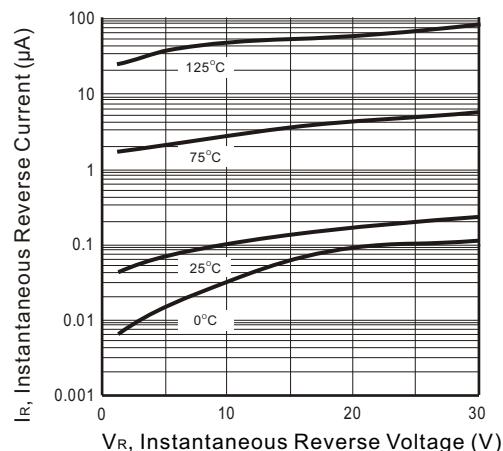


Fig.3 Capacitance Between Terminals Characteristics

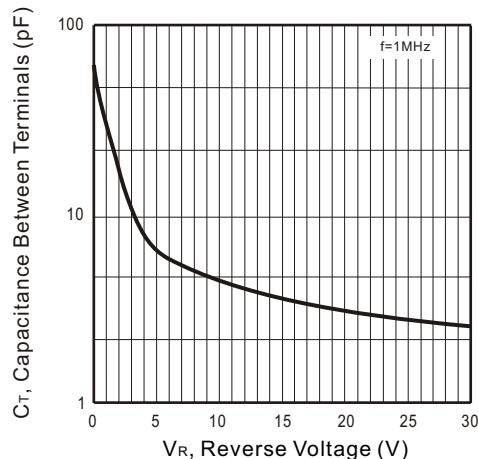


Fig.4 Power Derating Curve

