

SMD Schottky Barrier Diode

COACHIP
SMD Diodes Specialist

CDBFR0320/0330/0340 (RoHs Device)

I_O = 350 mA

V_R = 20 to 40 Volts

Features

Low forward voltage.

Designed for mounting on small surface.

Extremely thin / leadless package.

Majority carrier conduction.

Mechanical data

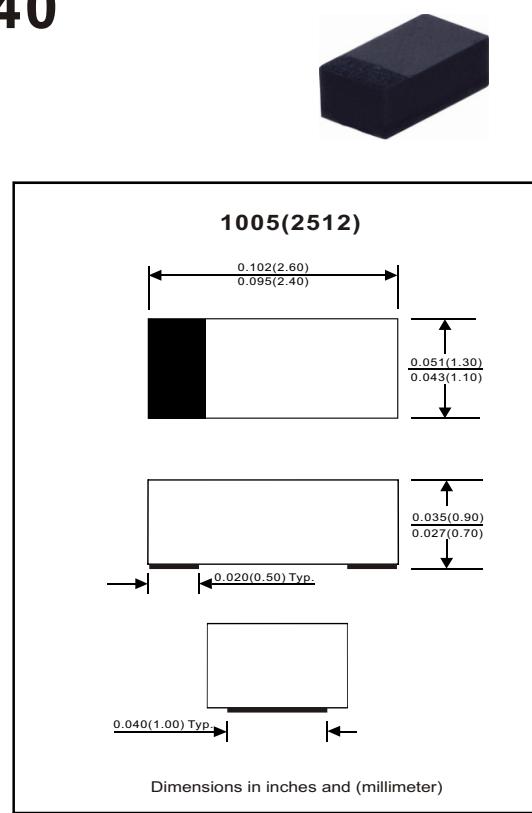
Case: 1005(2512) standard package,
molded plastic.

Terminals: Gold plated, solderable per
MIL-STD-750, method 2026.

Polarity: Indicated by cathode band.

Mounting position: Any

Weight: 0.006 gram(approx.).



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

Parameter	Symbol	CDBFR0320	CDBFR0330	CDBFR0340	Unit
Repetitive Peak reverse voltage Reverse voltage	V _{RRM} V _R	20	30	40	V
RMS reverse voltage	V _R (RMS)	14	21	28	V
Average forward rectified current	I _O		350		mA
Forward current, surge peak 8.3 ms single half sine-wave	I _{FSM}		1.5		A
Power dissipation	P _D		200		mW
Thermal resistance junction to ambient air	R _{θJA}		500		°C/W
Storage temperature	T _{STG}		-65 TO +125		°C
Junction temperature	T _j		+125		°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse current CDBFR0320 CDBFR0330 CDBFR0340	V _R = 10V V _R = 20V V _R = 30V	I _R			5 5 5	uA
Forward voltage	I _F = 20mA I _F = 200mA	V _F			0.37 0.60	V
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C _T		50		pF
Reverse recovery time	I _F =I _R =10mA,I _{rr} =0.1xI _R ,RL=100 ohm	T _{rr}		6.4		nS

REV:B

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RATING AND CHARACTERISTIC CURVES (CDBFR0320/0330/0340)

Fig. 1 - Forward characteristics

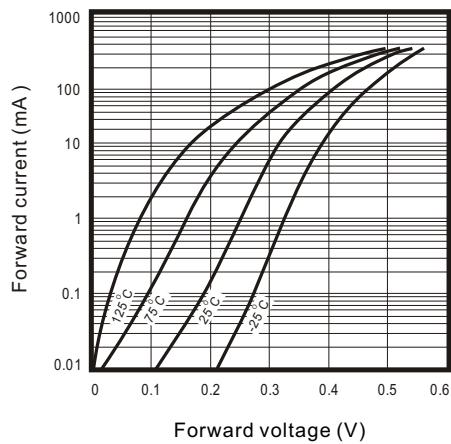


Fig. 2 - Reverse characteristics

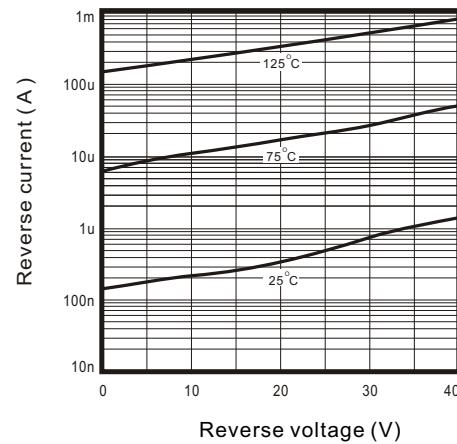


Fig.3 - Capacitance between terminals characteristics

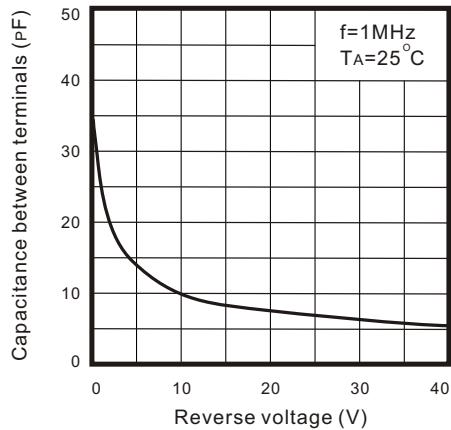


Fig.4 - Current derating curve

