### **SMD Schottky Barrier Diode**

# COACHIP SMD Diodes Specialist

## CDBFR0320/0330/0340

(RoHs Device)
IO = 350 mA

 $V_R = 20 \text{ to } 40 \text{ Volts}$ 

#### **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

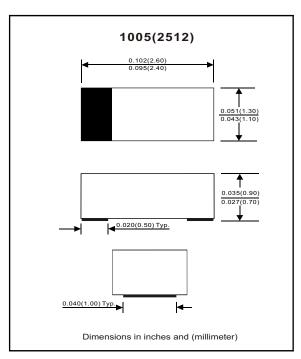
MIL-STD-750, method 2026.

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 CDBFR03		CDBFR0340	Unit	
Repetitive Peak reverse voltage Reverse voltage	Vrrm Vr	20 30 40		40	V	
RMS reverse voltage	VR(RMS)	14	21	28	V	
Average forward rectified current	lo	350				
Forward current, surge peak 8.3 ms single half sine-wave	IFSM	1.5				
Power dissipation	Pp	200				
Thermal resistance junction to ambient air	R өJA	500				
Storage temperature	Тѕтс	-65 TO +125				
Junction temperature	Tj	+125				

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

Parameter		Conditions	Symbol	Min	Тур	Max	Unit
Reverse current	CDBFR0320 CDBFR0330 CDBFR0340	VR = 10V VR = 20V VR = 30V	lr			5 5 5	uA
Forward voltage		IF = 20mA IF = 200mA	VF			0.37 0.60	V
Capacitance betw	een terminals	f = 1 MHz, and 0 VDC reverse voltage	Ст		50		pF
Reverse recovery	time	IF=IR=10mA,Irr=0.1xIR,RL=100 ohm	Trr		6.4		nS

REV:B

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#### RATING AND CHARACTERISTIC CURVES (CDBFR0320/0330/0340)

Fig. 1 - Forward characteristics

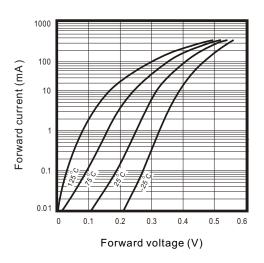


Fig.3 - Capacitance between terminals characteristics

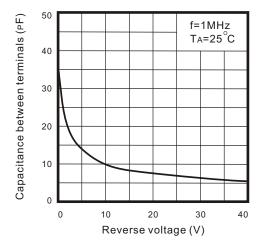


Fig. 2 - Reverse characteristics

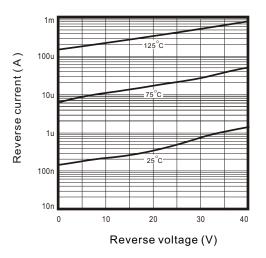
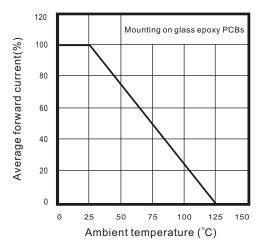


Fig.4 - Current derating curve



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