



Features

- Average Forward Current: $I_{F(AV)}=2A$
- Polarity: Color band denotes cathode



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
CDBB140-G	SMB (DO-214AA)	C14KD	3000

**SMB
(DO-214AA)**



Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Test Conditions	Limit
Repetitive Peak Reverse Voltage	V_{RRM}	V		40
Maximum RMS Voltage	V_{RMS}	V		28
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, T_L (Fig.1)	2.0
Surge(Non-repetitive) Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	50
Junction Temperature	T_J	°C		-55~+125
Storage Temperature	T_{STG}	°C		-55 ~ +150

Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Test Condition		Limit
Peak Forward Voltage	V_F	V	$I_F=2.0A$		0.55
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25°C	0.5
	I_{RRM2}			Ta=100°C	10
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/ W	Between junction and ambient		75
	$R_{\theta J-L}$		Between junction and terminal		17

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

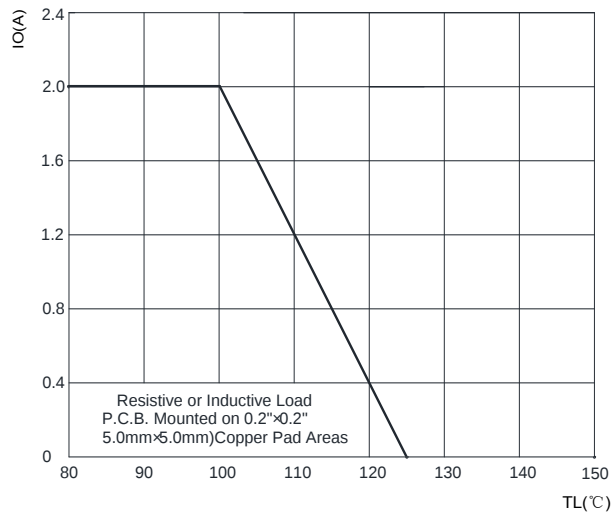


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

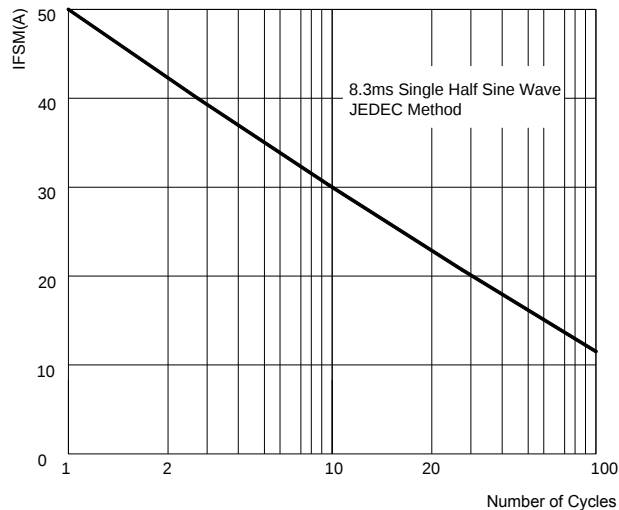


FIG.3: TYPICAL FORWARD CHARACTERISTICS

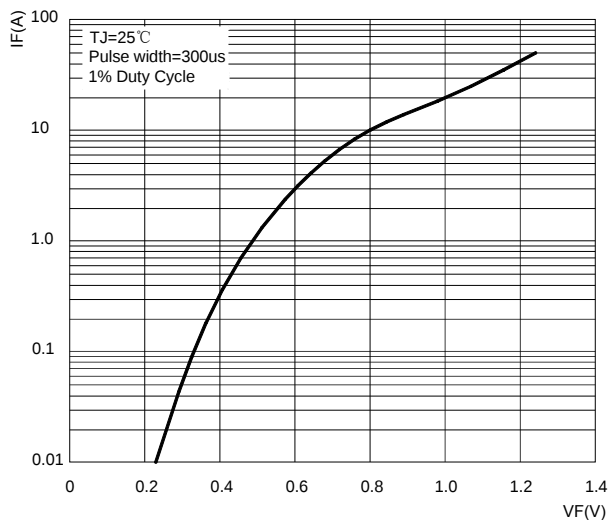
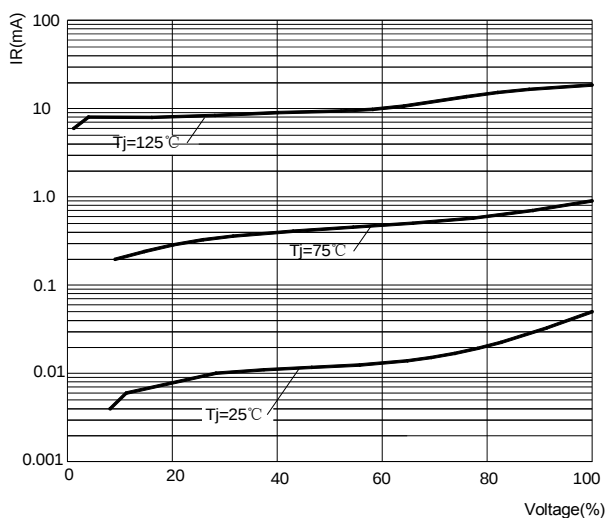


FIG.4: TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions
SMB(DO-214AA)



Dimensions in inches and (millimeters)



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