

CDBWL0130LR-HF

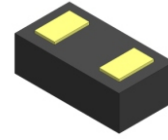
Ultra small SMD package

$I_F = 100 \text{ mA}$

$V_R = 30 \text{ V}$

RoHS Device

Halogen Free



Case 01005A

Features

- Low reverse current.
- Low forward voltage.
- Designed for mounting on small surface.
- Extremely thin package.
- Low stored charge.
- Majority carrier conduction.

Outline



Circuit Diagram



Mechanical data

- Case: 01005 package, molded plastic.
- Polarity: Indicated by cathode band.
- Mounting position: Any.

Part number	Package	Reel	Reel size	Marking code
CDBWL0130LR-HF	01005A	10,000	7 inch	O

Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Value	Unit
Forward current		I_F	100	mA
Reverse voltage		V_R	30	V
Peak forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	2	A
ESD rating	Human body model	ESD	4	kV
	Machine model		800	V
Junction temperature range		T_J	-55 to +125	$^\circ\text{C}$
Storage temperature range		T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 10\text{mA}$	V_F		260	300	mV
	$I_F = 100\text{mA}$			385	460	
Reverse current	$V_R = 10\text{V}$	I_R		1.5	7	μA
	$V_R = 30\text{V}$			2.0	20	
Junction capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	C_J		28		pF
	$V_R = 5\text{V}, f = 1\text{MHz}$			6		

Typical Rating and Characteristic Curves (CDBWL0130LR-HF)

Fig.1 - Forward Characteristics

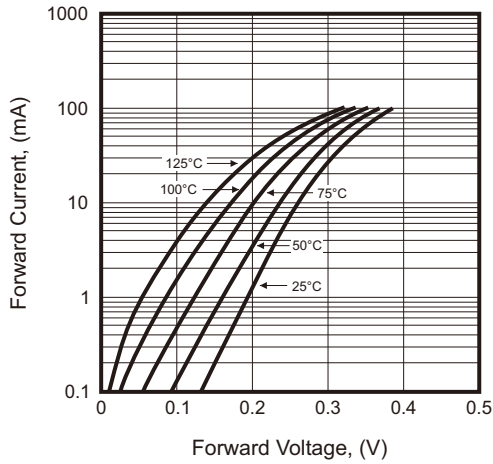


Fig.2 - Reverse Characteristics

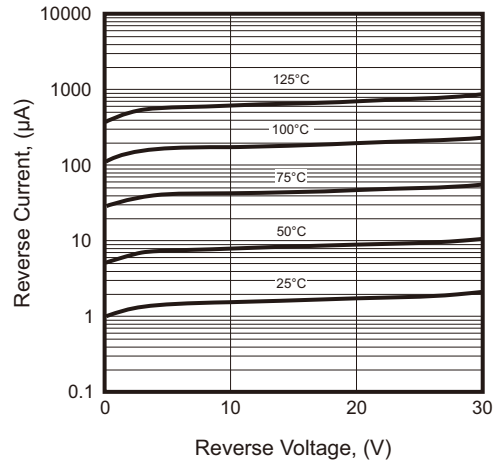


Fig.3 - Capacitance Between Terminals Characteristics

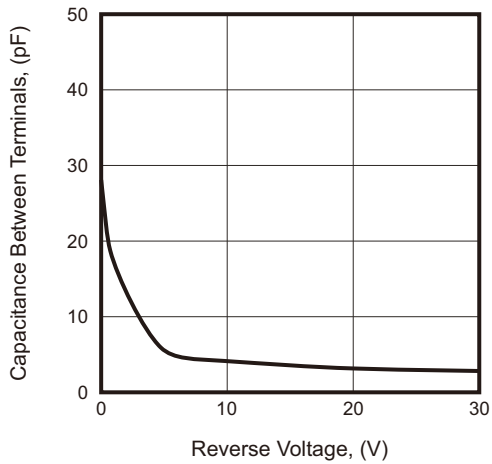


Fig.4 - Current Derating Curves

