

Features

The glass passivated, three-layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors. They demonstrate low breakover current at breakover voltage as they withstand peak pulse current. The breakover symmetry is within four volts with a typical breakover voltage of LLDB-3 32 volts, LLDB-4 40 volts. These diacs are intended for use in thyristor phase control, circuits for lamp-dimming, universal-motor speed controls, and heat controls.

Good-Ark's LLDB-3 and LLDB-4 are bi-directional trigger diodes designed operate in conjunction with all of Good-Ark Electronics' Triacs and SCR's.

Storage Temperature T_{STG} -40°C to +150°C
Operating Temperature T_J -40°C to +100°C

Maximum Ratings at 50°C Ambient
Peak Current (10µsec duration, 120 cycle repetition rate)
 I_p +2 Amperes Max.
Peak output voltage e_p +3 volts Max. *

Electrical Characteristics

at 25°C Ambient

Test		Symbols	Min.	Typ.	Max.	Units
Breakover voltage	LLDB-3 LLDB-4	$V_{(BR)1}$ and $V_{(BR)2}$	28 35	32 40	36 45	Volts
Breakover currents		$I_{(BR)1}$ and $I_{(BR)2}$	-	-	200	µAmp
Breakover voltage symmetry		$ V_{(BR)1} - V_{(BR)2} $	-	-	3.8	Volts
Dynamic breakover voltage $\Delta V = [I_{BR1} \text{ to } I_{BR2} = 10\text{mA}]$		$ \Delta V_{\pm} $	5	-	-	Volts
Thermal impedance junction to ambient		$R_{\theta JA}$	-	-	60	°C/W

* CIRCUIT FOR PEAK OUTPUT VOLTAGE TEST

