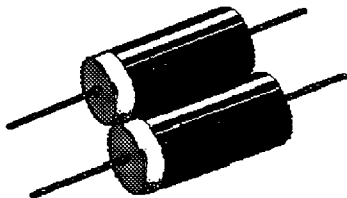


**200 uAMP Bi-Directional Sidac**

9/93

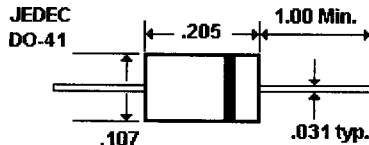
**Description**

**SD105...270 Series**



**Mechanical Dimensions**

**SD105...270 Series**



**Features**

- Glass Passivated, Three Layer, for Triggering Thyristors
- Low Breakover Current at Breakover Voltage
- For Lamp dimming, Heat control and Motor speed control

**Maximum Ratings (@25 Deg. C)**

	SD105	SD120	SD220	SD240	SD270	Units
Repetitive Peak Off-State Voltage.....Vdrm	+/- 90	+/- 90	+/- 180	+/- 180	+/- 180	V Min.
BreakOver Voltage.....Vbo	95	110	205	220	255	V Min.
60HZ Sine wave, ....Vbo	113	125	230	250	280	V Max.
On-State RMS Current.....It (rms) Conduction Angle = 360 deg.	1.0	1.0	1.0	1.0	1.0	A Max.
Peak Surge (Non Repetitive) On-State Current.....Itsm One Cycle 60HZ	20	20	20	20	20	A Typ.
Repetitive Peak Off-State Current.....Idrm 60HZ, V = Vdrm	10	10	10	10	10	uA Max.
Dynamic Holding Current.....Ih 60HZ, R = 0.1K Ohms	100	100	50	50	50	mA Max.
Peak On-State Voltage.....Vtm It = 1Amp	1.5	1.5	1.5	1.5	1.5	V Max.
On-State Current Maximum Rate of Change...Di/Dt	150	150	150	150	150	A/uS Typ.
Repetitive Peak On-State Current Pulse Width.....Itm 10uS, F= 1KHZ	20	20	20	20	20	A Typ.
Switching Resistance, 60HZ, Sine wave....Rs (Vbo-Vs)/(Is-Ibo)	0.1	0.1	0.1	0.1	0.1	Kohm Min.
BreakOver Current, 60HZ Sine wave.....Ibo	200	200	200	200	200	uA Max.
Thermal Resistance (Junction to case).....Rtheta J-C	45	45	45	45	45	Deg. C/W
Junction Temperature.....Tj	-----<----- -40 to +110 ----->-----					Deg. C.
Storage Temperature.....Tstg.	-----<----- -40 to +150 ----->-----					Deg. C.

**Sidac Characteristics**

