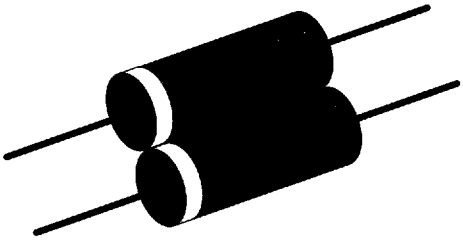
SD105-270 Series

200 uAmp Bi-Directional Sidac

Description

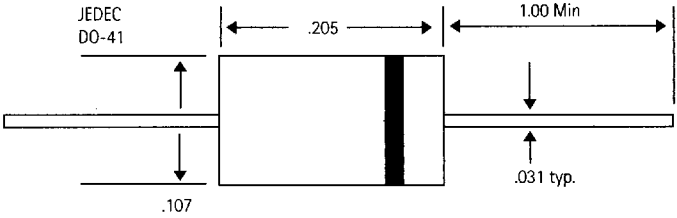


Features:

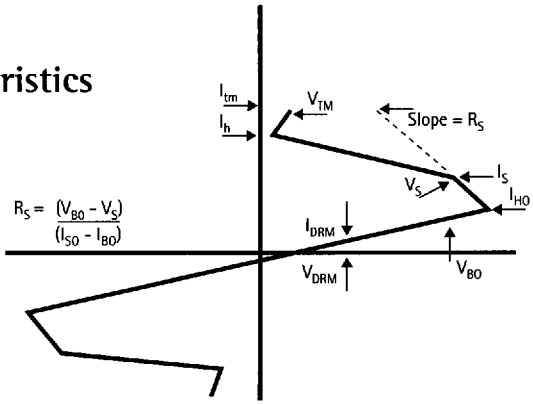
- Glass Passivated , Three Layer, for Triggering Thyristors
- Low Breakover Current at Breakover Voltage
- For Lamp dimming, Heat control and Motor speed control

Mechanical Details

all dimensions in inches



Sidac Characteristics



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Maximum Ratings

@ 25°C

		SD105	SD120	SD220	SD240	SD270	Units
V_{DRM}	Repetitive Peak Off-state Voltage	±90	±90	±180	±180	±180	V Min
V_{BO}	Break over voltage	95	110	205	220	255	V Min
V_{BO}	60Hz Sine wave	113	125	230	250	280	V Max
$I_{T(RMS)}$	On-State RMS Current	1.0	1.0	1.0	1.0	1.0	A Max
	Conduction Angle = 360°C						
I_{TSM}	Peak Surge (Non Repetitive) On-State Current	20	20	20	20	20	A Typ
	One Cycle 60Hz						
I_{DRM}	Repetitive Peak Off-State Current	10	10	10	10	10	uA Max
	60Hz, V = Vdrm						
I_H	Dynamic Holding Current	100	100	50	50	50	mA Max
	6oHz, R = 0.1K Ohms						
V_{TM}	Peak On-State Voltage	1.5	1.5	1.5	1.5	1.5	V Max
	It = 1 Amp						
Di/Dt	On-State Current Maximum Rate of Change	150	150	150	150	150	A/uS Typ
I_{TRM}	Repetitive Peak On-State Current Pulse Width	20	20	20	20	20	A Typ
	10uS, F = 1KHz						
R_S	Switching Resistance, 60Hz, Sine Wave	0.1	0.1	0.1	0.1	0.1	Kohm Min
	(Vbo - Vs) / (Is - Ibo)						
I_{BO}	Breakover Current, 60Hz Sine Wave	200	200	200	200	200	uA Max
Rthetha J-C	Thermal Resistance (Junction to case)	45	45	45	45	45	°C/W
T_J	Junction Temperature	← -40 to +110 →					°C
T_{STG}	Storage Temperature	← -40 to +150 →					°C