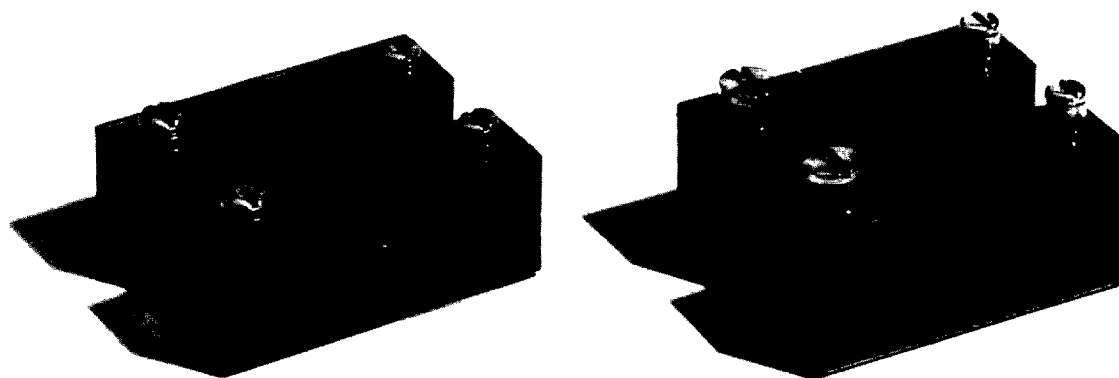


SOLID-STATE RELAYS



NATIONAL PART NO. Zero Cross switching Random switching	D2410Z D2410R	D4810Z	D2425Z D2425R	D4825Z	D2440Z D2440R	D4840Z	D2475Z D2475R	D4875Z
I_{RMS} Current rating (RMS Amps)	10		25		40		75	
Voltage range (RMS volts)	48-280	180-530	48-280	180-530	48-280	180-530	48-280	180-530
Transient voltage (PK volts)	500	1200	500	1200	500	1200	500	1200
I_{TSM} Peak one cycle surge current (PK Amps)	150		300		650		1000	
I²t For fusing at 8.3 msec (A ² sec)	95		375		1750		4150	
V_{TM} Max peak on-state volts @ peak amps, T _J = 25°C	1.5		1.6		1.6		1.7	
dv/dt Min. rate of voltage rise (V/μsec)	200		200		200		200	
Control voltage range (DC volts)	3-32		3-32		3-32		3-32	
Control input impedance (OHMS)	1000-1800		1000-1800		1000-1800		1000-1800	
Turn-On Min. control (volts)	3.0		3.0		3.0		3.0	
Turn-Off Max control (volts)	1.0		1.0		1.0		1.0	
Isolation voltage (RMS)	2500		2500		2500		2500	
R_{θJC} Thermal impedance Junction-to-case (°C/W)	.9		.7		.5		.2	
T_J Max junction operating temperature °C	125		125		125		125	
Ambient temperature range °C	-30 to +80		-30 to +80		-30 to +80		-30 to +80	
Package Outline Number	RO-1		RO-1		RO-1		RO-3	

Circuit

