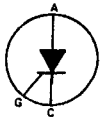


# Silicon Controlled Rectifiers (SCR)

## Phase Control - SCR



VDRM	IT RMS - All Conduction Angles												IT Max Forward Current (Amps)												IT Ave - Conduction Angle = 180°														
	RMS	.8 A			3 A			4 A			5 A			*7 A			8 A			10 A																			
	Av.	.5 A			1.9 A			2.5 A			3.2 A			4.3 A			5.1 A			6.2 A																			
30	ECG5400			ECG5411			ECG5452																																
50							ECG5453			ECG5470						ECG5442			ECG5481																				
60	ECG5401			ECG5412																																			
100	ECG5402			ECG5413			ECG5454			ECG5471									ECG5482																				
200	ECG5404			ECG5408			ECG5414			ECG5455			ECG5472			ECG5511			ECG5427			ECG5444			ECG5483			ECG5417											
400	ECG5405			ECG5409			ECG5415			ECG5457			ECG5474			ECG5512			ECG5428			ECG5437			ECG5446			ECG5485			ECG5418			ECG5426					
600	ECG5406			ECG5410			ECG5416			ECG5458			ECG5476			ECG5513			ECG5429			ECG5438			ECG5448			ECG5487			ECG5419								
IGT Min	200 μA #			10 mA			200 μA #			200 μA #			10 mA			15 mA			15 mA			200 μA #			30 mA			20 mA			15 mA			200 μA #					
VGT Max (V)	0.8			1.5			1.0			0.8			1.5			2.0			1.5			1.5			1.5			1.5			1.5			1.5			0.8		
ISurge (A)	6.0			30			25			20			100			60			100			100			80			100			100			100					
IHold Min (mA)	5.0			20			5.0			3.0			25			20			20			6.0			40			25			30			3.0					
VGFM (V)	8.0			10			6.0			6.0			6.0			10			6.0			5.0			6.0			10			5.0			5.0					
VGRM (V)	8.0			10			6.0			6.0			6.0			5.0			6.0			5.0			6.0			10			5.0			5.0					
VF on (V) Max	1.7			1.6			2.0			2.2			2.0			2.8			2.6			2.0			1.5			1.3			1.6			1.6					
PG Av (W)	.01			0.3			0.1			0.1			0.5			0.5			0.5			0.5			0.5			0.5			0.5			0.5					
Operating Temp. Tj °C	-65 to +125			-40 to +125			-40 to +110						-40 to +110						-65 to +100			-40 to +110						-40 to +100			-40 to +110								
dv/dt (Typ) V/μsec	30			30			10						50			200			100			10			50			50			20								
Fig. No.	Z36			Z35			Z38			Z40			Z48			Z42			Z35			Z41			Z39			Z48			Z41								
Package	TO-92			TO-5M			TO-126			TO-202			TO-64			TO-66			TO-5M			TO-220			TO-127			TO-64			Isolated Tab TO-220								

# Return Gate to Cathode through 1000 ohms minimum.

\* If ITRMS exceeds 4 A, anode connection must be made to case.

Package Outlines - See Page 1-112