

Phase Control - SCR (cont'd)



VDRM	IT RMS - All Conduction Angles											IT Max Forward Current (Amps)											IT Ave - Conduction Angle = 180°										
	RMS	40 A	50 A	55 A	80 A	125 A		275 A	470 A	550 A	850 A	1880 A	125 A		275 A	470 A	550 A	850 A	1880 A	125 A		275 A	470 A	550 A	850 A	1880 A							
	Av.	25 A	32 A	35 A	50 A	80 A		175 A	300 A	350 A	550 A	1200 A	80 A		175 A	300 A	350 A	550 A	1200 A	80 A		175 A	300 A	350 A	550 A	1200 A							
200					ECG5567	ECG5570	ECG5575	ECG5580	ECG5590		ECG5594																						
400				ECG5539																													
600					ECG5568	ECG5572	ECG5577	ECG5582	ECG5591	ECG5587	ECG5595	ECG5598																					
800	ECG5536	ECG5538	ECG5540																														
1200					ECG5569	ECG5574	ECG5579	ECG5584	ECG5592	ECG5589	ECG5596	ECG5599																					
IGT Min (mA)	40	80	40	100	100	100	150	150	150	150	150	200																					
VGT Max (V)	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0																					
ISurge (A)	400	500	600	1200	1800	1800	5500	5500	10,000	10,000	27,000																						
IHold Min (mA)	60	150	60	200	200	200	300	300	300	300	500																						
VGFM (V)	10	10	10	20.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0																						
VGRM (V)	10	5	5	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0																						
VF on (V) Max	1.8	1.9	1.8	2.5	2.2	2.2	1.5	1.5	2.0	2.0	1.7																						
PG Av (W)	0.5	1.0	0.8	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0																						
Operating Temp. T _j °C	-40 to +125	-40 to +125	-40 to +125	-40 to +125	-40 to +125		-40 to +125	-40 to +125	-40 to +125	-40 to +125	-40 to +125	-40 to +125																					
dv/dt (Max) V/μsec	50	500	375	200	300	300	300	300	300	300	300																						
Non-Repetitive d _i /d _t Max Amps/μsec	--	--	--	200	800	800	800	800	800	800	600	800																					
Fig. No.	Z41	Z40A	Z40A	Z47	Z52	Z51	Z53	Z55	Z54	Z56	Z57																						
Package	TO-220	TO-218 Isolated Tab	TO-218	TO-65	TO-94	TO-83	TO-93	HT-16	ST-75	HT-23	HT-29																						

Package Outlines - See Page 1-112

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