

SCR Product Matrix (continued)

RCA SCR's	TO-3 	TO-220AB 	Press Fit 		Stud 	Isolated Stud 		AA 			
	P	F	G		H		J				
I_T (RMS)	12.5	16	20A	35A	20A	35A	20A	35A	20A	35A	
I_{TSM} (60 Hz)	200A	160	200A	350A	200A	350A	200A	350A	200A	350A	
V_{DROM}	15										
V_{RRM} (V)	25										
	30										
	50	2N6400									
	100	2N3668	2N6401	S6200A	2N3870	S6210A	2N3896	S6220A	S6420A	S6230A	S6430A
	150										
	200	2N3669	2N6402	S6200B	2N3871	S6210B	2N3897	S6220B	S6420B	S6230B	S6430B
	250										
	300		S6100C								
	400	2N3670	2N6403	S6200D	2N3872	S6210D	2N3898	S6220D	S6420D	S6230D	S6430D
	500		S6100E								
	600	2N4103	2N6404	S6200M	2N3873	S6210M	2N3899	S6220M	S6420M	S6230M	S6430M
	700		S6100S								
	750										
	800			S6400N		S6410N		S6420N		S6430N	
I_{GT} (mA)	40	30	15	40	15	40	15	40	15	40	
V_{GT} (V)	2	1.5	2	2	2	2	2	2	2	2	
File No.	116	892	418	578	418	578	418	578	877	877	

• VERSAWATT

RCA SCR's			TO-48							
	BB	CC	Q							
I_T (RMS)	20A	35A	20A	35A	16A	25A	Pulse Modulator 35A	FTO* 35A	FTO* 35A	
I_{TSM} (60 Hz)	200A	350A	200A	350A	125A	150A	150A	180A	250A	
V_{DROM}	15									
V_{RRM} (V)	25				2N1842A	2N681				
	30									
	50				2N1843A	2N682			2N3654	
	100	S6240A	S6440A	S6250A	S6450A	2N1844A	2N683	2N3650	2N3655	
	150					2N1845A	2N684			
	200	S6240B	S6440B	S6250B	S6450B	2N1846A	2N685	2N3651	2N3656	
	250					2N1847A	2N686			
	300					2N1848A	2N687	2N3652	2N3657	
	400	S6240D	S6440D	S6250D	S6450D	2N1849A	2N688	2N3653	2N3658	
	500					2N1850A	2N689			
	600	S7240M	S6440M	S6250M	S6450M		2N690	S6493M	S7410M	S7412M
	700									
	750									
	800		S6440N		S6450N					
I_{GT} (mA)	15	40	15	40	45	25	80	180	180	
V_{GT} (V)	2	2	2	2	3.5	3	2	3	2	
File No.	877	877	877	877	28	96	247	408	724	

* FTO - Fast Turn-Off

SCR's (continued)

RCA TYPE	Current			Package (See p. 28)	Voltage V _{DRM} V _{RRM} V	Temp. Range Operating °C	Max. Gate Trigger Characteristic		Critical Rate of Rise of Off-State Voltage dv/dt · V/μs			Max. Instantaneous Holding Current		Thermal Resistance R _{θJC} °C/W
	I _T (RMS) A	I _{TSM} A	Temp., T _C °C				I _{GT} mA	V _{GT} V	Min.	Typ.	T _C ·°C	I _{HO} -mA	T _C ·°C	

GENERAL-PURPOSE SCR's

S22 types

2N3528	2	60	25 [•]	N	200	-40 to 100	15	2	10	200	100	20	25	40 [▲]
2N3529	2	60	25 [•]	N	400	-40 to 100	15	2	10	200	100	20	25	40 [▲]
2N4102	2	60	25 [•]	N	600	-40 to 100	15	2	10	200	100	20	25	40 [▲]

S24 types

S2400A	4.5	200	75	N	100	-40 to 100	15	2	10	100	100	20	25	5
S2400B	4.5	200	75	N	200	-40 to 100	15	2	10	100	100	20	25	5
S2400D	4.5	200	75	N	400	-40 to 100	15	2	10	100	100	20	25	5
S2400M	4.5	200	75	N	600	-40 to 100	15	2	10	100	100	20	25	5

S26 types

S2600B	7	100	60	A-2	200	-65 to 100	15	1.5	20	200	100	20	25	5
S2600D	7	100	60	A-2	400	-65 to 100	15	1.5	20	200	100	20	25	5
S2600M	7	100	60	A-2	600	-65 to 100	15	1.5	20	200	100	20	25	5
S2620B	7	100	50 [‡]	C-2	200	-65 to 100	15	1.5	20	200	100	20	25	7 [◆]
S2620D	7	100	50 [‡]	C-2	400	-65 to 100	15	1.5	20	200	100	20	25	7 [◆]
S2620M	7	100	50 [‡]	C-2	600	-65 to 100	15	1.5	20	200	100	20	25	7 [◆]
S2610B	3.3	100	25 [•]	B-2	200	-65 to 100	15	1.5	20	200	100	20	25	35 [▲]
S2610D	3.3	100	25 [•]	B-2	400	-65 to 100	15	1.5	20	200	100	20	25	35 [▲]
S2610M	3.3	100	25 [•]	B-2	600	-65 to 100	15	1.5	20	200	100	20	25	35 [▲]

S27 types

2N3228	5	60	75	D	200	-40 to 100	15	2	10	200	100	20	25	4
2N3525	5	60	75	D	400	-40 to 100	15	2	10	200	100	20	25	4
2N4101	5	60	75	D	600	-40 to 100	15	2	10	200	100	20	25	4
S2710B	1.7	60	25 [•]	E	200	-40 to 100	15	2	10	200	100	20	25	28 [▲]
S2710D	1.7	60	25 [•]	E	400	-40 to 100	15	2	10	200	100	20	25	28 [▲]
S2710M	1.7	60	25 [•]	E	600	-40 to 100	15	2	10	200	100	20	25	28 [▲]

S28 types

S122F	8	100	80	F	50	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122A	8	100	80	F	100	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122B	8	100	80	F	200	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122C	8	100	80	F	300	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122D	8	100	80	F	400	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122E	8	100	80	F	500	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122M	8	100	80	F	600	-65 to 100	25	1.5	10	100	100	30	25	2.2
S122S	8	100	80	F	700	-65 to 100	25	1.5	10	100	100	30	25	2.2
S2800F	10	100	80	F	50	-65 to 100	15	1.5	100	—	100	20	25	2
S2800A	10	100	80	F	100	-65 to 100	15	1.5	75	—	100	20	25	2
S2800B	10	100	80	F	200	-65 to 100	15	1.5	50	—	100	20	25	2
S2800C	10	100	80	F	300	-65 to 100	15	1.5	40	—	100	20	25	2
S2800D	10	100	80	F	400	-65 to 100	15	1.5	30	—	100	20	25	2
S2800E	10	100	80	F	500	-65 to 100	15	1.5	25	—	100	20	25	2
S2800M	10	100	80	F	600	-65 to 100	15	1.5	20	—	100	20	25	2
S2800S	10	100	80	F	700	-65 to 100	15	1.5	15	—	100	20	25	2

S40 types

2N3668	12.5	200	80	P	100	-40 to 100	40	2	10	100	100	50	25	1.7
2N3669	12.5	200	80	P	200	-40 to 100	40	2	10	100	100	50	25	1.7
2N3670	12.5	200	80	P	400	-40 to 100	40	2	10	100	100	50	25	1.7
2N4103	12.5	200	80	P	600	-40 to 100	40	2	10	100	100	50	25	1.7

• Ambient Temperature (T_A) ▲ Junction-to-Ambient (R_{θJA}) ‡ Heat-Spreader Temperature (T_{HS}) ◆ Junction-to-Heat Spreader (R_{θJHS})