LIST OF DISCONTINUED TRANSISTORS

Note: In this list no distinction is made between PNP and NPN.

Ⓢ: Industrial use

S: Silicon
G: Germanium
AL: Alloy junction type
D: Drift type
DB: Diffused base type
EPL: Epitaxial planar type
ME: Mesa type

EME: Epitaxial mesa type
TME: Triple diffused mesa type
TD: Triple diffused type
TDP: Triple diffused planar type
PL: Planar type
J: Junction type
DJ: Diffused junction type
PC: Point contact type

†: Tc=25°C
‡: Specified case temperature
⊥: With specified heat sink

Type Number	Discontinued Package	Applications	Replacement	Case Outline	Structure	Absolute Maximum Ratings/Ta=25°C V_{CBO}	V_{CEO} †V_{CER}	V_{EBO}	I_c	P_c	Tj (max)	Electrical Characteristics/Ta=25°C V_{CB}	I_{CBO} max	V_{EB}	I_{EBO} max	V_{CE}	I_c	f	h_{FE} †h_{fe}	V_{CB} V_{CE}	I_c	f_T †f_{ab}	V_{CB}	C_{ob} †C_{re}	Remarks
Units shown right are omitted on and after next page.						V	V (R_{BE}:Ω)	V	A	W	°C	V	A	V	A	V	A	Hz	–	V	A	MHz	V	pF	
2SA182Ⓢ		Medium Speed Switching, HF Amp		–	G, AL	25	12	12	100m	100m	85	15	5μ	12	10μ	1.5	30m	–	30~150	6	1m	†8	6	11	
2SA198		AM IF Amp		–	G, AL	15	–	2	5m	30m	85	15	25μ	2	15μ	6	1m	455k	† 25	–	–	–	6	12	
2SA201		AM Converter, MIX, IF Amp		–	G, AL	15	–	10	15m	100m	85	15	10μ	2	7μ	6	1m	455k	† 9~ 16	–	–	–	6	<14.5	
2SA202		AM IF Amp		–	G, AL	15	–	10	15m	100m	85	15	10μ	2	7μ	6	1m	455k	†11~27.5	–	–	–	6	<12.5	
2SA203		AM IF Amp		–	G, AL	15	–	10	15m	100m	85	15	10μ	2	7μ	6	1m	455k	† 4~ 16	–	–	–	6	<12.5	
2SA219		TV Sound IF, FM IF Amp		–	G, D	20	–	1.5	15m	70m	85	15	15μ	1.5	40μ	6	1m	1k	†27~330	6	1m	†55	6	3.5	
2SA220		AM RF Amp		–	G, D	20	–	0.5	10m	50m	85	15	15μ	0.5	15μ	6	1m	1k	† 150	6	1m	†60	6	3.5	
2SA221		SW Converter, OSC, MIX		–	G, D	20	–	1.5	15m	70m	85	15	15μ	1.5	40μ	6	1m	1k	†27~330	–	–	–	6	3.5	
2SA222		SW Converter		–	G, D	20	–	1.5	15m	70m	85	15	15μ	1.5	40μ	6	1m	1k	†27~330	–	–	–	6	3.5	
2SA223		SW OSC, MIX		–	G, D	20	–	1.5	15m	70m	85	15	15μ	1.5	40μ	6	1m	1k	†27~330	–	–	–	6	3.5	
2SA227		AM RF Amp		–	G, D	20	–	0.5	10m	50m	85	6	12μ	0.5	15μ	6	1m	1k	† 70	6	1m	†95	6	3.0	
2SA263		TV MIX, OSC		–	G, ME	20	–	0.4	5m	50m	85	15	10μ	0.5	50μ	6	2m	100M	† 4	6	2m	500	6	1.5	
2SA264		TV RF Amp		–	G, ME	20	–	0.4	5m	50m	85	15	10μ	0.5	50μ	6	2m	100M	† 6	6	2m	500	6	1.5	
2SA265		TV MIX, Local OSC		–	G, ME	20	–	0.4	5m	50m	85	15	10μ	0.5	50μ	6	2m	100M	† 6	6	2m	500	6	1.5	
2SA321		FM IF Amp		–	G, D	20	–	1.5	15m	70m	85	15	15μ	1.5	40μ	6	1m	1k	†27~330	6	1m	†25	6	<4.5	