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TRANSISTORS WITH RESISTOR BUILT IN

(Classified by package and arranged in order of increasing P_C . Minus sign for PNP is omitted due to space limitations.)

Type Number	Case	Applications	Absolute Maximum Ratings/Ta=25°C						Electrical Characteristics/Ta=25°C							
			V _{CE0}	V _{CEO}	V _{EB0}	I _C	P _C	T _j	V _{CB} [V]	I _{CBO} (max) [A]	V _{CE} [V]	I _C [A]	hFE	V _{CE} [V]	I _C [A]	f _T [MHz]
			[V]	[V]	[V]	[A]	[W]	[°C]								
2 S C 3 3 9 7	CP	Switching(R1=46K, R2=23K)	50	50	10	100m	200m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 3 9 8	CP	Switching(R1=10K, R2=10K)	50	50	10	100m	200m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S A 1 3 4 5	SPA	Switching(R1=47K, R2=47K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S A 1 3 4 6	SPA	Switching(R1=22K, R2=22K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S A 1 3 4 7	SPA	Switching(R1=46K, R2=23K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S A 1 3 4 8	SPA	Switching(R1=10K, R2=10K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S C 3 3 9 9	SPA	Switching(R1=47K, R2=47K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 4 0 0	SPA	Switching(R1=22K, R2=22K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 4 0 1	SPA	Switching(R1=46K, R2=23K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 4 0 2	SPA	Switching(R1=10K, R2=10K)	50	50	10	100m	300m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S A 1 4 2 0	NP	Switching(R1=47K, R2=47K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S A 1 4 2 1	NP	Switching(R1=22K, R2=22K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S A 1 4 2 2	NP	Switching(R1=46K, R2=23K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S A 1 4 2 3	NP	Switching(R1=10K, R2=10K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	200
2 S C 3 6 5 3	NP	Switching(R1=47K, R2=47K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 6 5 4	NP	Switching(R1=22K, R2=22K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 6 5 5	NP	Switching(R1=46K, R2=23K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	250
2 S C 3 6 5 6	NP	Switching(R1=10K, R2=10K)	50	50	10	100m	400m	150	40	0.1 μ	5	5m	>50	10	5m	250

HIGH VOLTAGE APPLICATIONS

(Classified by package and arranged in order of increasing P_C . Minus sign for PNP is omitted due to space limitations.) ●: Mounted on ceramic board (250mm²×0.8mm)

Type Number	Case	Applications	Absolute Maximum Ratings/Ta=25°C						Electrical Characteristics/Ta=25°C							
			VCE0 [V]	VCE0 [V]	VEB0 [V]	IC [A]	PC *TC=25°C [W]	Tj [°C]	ICB0 (max) [A]	VCE [V]	IC [A]	hFE	fT			
													VCE [V]	IC [A]	[MHz]	
2 S K 3 3 3	DP6A.B	Diff Amp.	VDS 80	VGDS 80	-	IG 10m	PD 200m	125	VGS 30	IGSS 1.0n	VDS 30	-	IDSS 1.2~12m	VDS 30	-	ciss 11pF
2 S A 1 4 1 5	PCP	High Voltage Switching	180	160	5	140m	1.3●	150	80	0.1 μ	5	10m	100~400	10	10m	150
2 S C 3 6 4 5	PCP	High Voltage Switching	180	160	5	140m	1.3●	150	80	0.1 μ	5	10m	100~400	10	10m	150
2 S A 1 4 1 8	PCP	High Voltage Switching	180	160	5	0.7	1.3●	150	120	0.1 μ	5	100m	100~400	10	50m	120
2 S C 3 6 4 8	PCP	High Voltage Switching	180	160	5	0.7	1.3●	150	120	0.1 μ	5	100m	100~400	10	50m	120
※ 2 S A 1 4 1 9	PCP	High Voltage Switching	180	160	5	1.5	1.5●	150	120	0.1 μ	5	100m	100~400	10	50m	120
※ 2 S C 3 6 4 9	PCP	High Voltage Switching	180	160	5	1.5	1.5●	150	120	0.1 μ	5	100m	100~400	10	50m	120