

MPT • CPT F5 • PSD

Application	Package			V _{CEO} (V) *V _{CEs} **V _{CEr}	I _c (A)	I _c Max. (A)	P _c (W)		h _{FE}	V _{CE} (V)	I _c (mA)	Circuit	
	MPT	CPT F5	PSD				MPT (Ta=25°C)	CPT PSD (Tc=25°C)					
	Part No.												
Driver		2SB1132	—	—	—32	—1	—	2★	—	82~390	—3	—100	—
	New	2SA1900	—	—	—50	—1	—2	2★	—	82~390	—3	—500	—
		—	2SB1184	—	—50	—3	—	—	15	82~390	—3	—500	—
		2SB1188	2SB1182	—	—32	—2	—	2★	10	82~390	—3	—500	—
		2SB1189	—	—	—80	—0.7	—	2★	—	82~390	—3	—100	—
		2SB1260	2SB1181	—	—80	—1	—	2★	10	82~390	—3	—100	—
		—	2SB1275	—	—160	—1.5	—	—	10	56~270	—5	—100	—
		—	2SB1516	—	—80	—3	—	—	10	56~270	—2	—400	—
		—	2SB1535	—	—100	—6	—	—	10	56~270	—1	—550	—
		2SC4132	—	—	120	2	—	2★	—	56~390	5	100	—
		2SD1664	—	—	32	1	—	2★	—	82~390	3	100	—
	New	2SC5053	—	—	50	1	2	2★	—	82~390	3	500	—
		—	2SD1760	—	50	3	—	—	15	82~390	3	500	—
		2SD1766	2SD1758	—	32	2	—	2★	10	82~390	3	500	—
		2SD1767	—	—	80	0.7	—	2★	—	82~390	3	100	—
		2SD1898	2SD1733	—	80	1	—	2★	10	82~390	3	500	—
		2SD2211	2SD1918	—	160	1.5	—	2★	10	56~270	5	100	—
		2SD2167	—	—	31±4	2	3	2★	—	56~270	3	500	—
Low V _{CE(sat)}		2SA1797	—	—	—50	—2	—5	2★	—	82~270	—2	—500	—
		—	—	☆2SA1870	—60	—12	—	—	35	60~320	—2	—2000	—
		2SB1424	—	—	—20	—3	—5	2★	—	82~390	—2	—100	—
	New	2SB1561	—	—	—60	—2	—5	2★	—	82~270	—2	—500	—
		2SC4672	—	—	50	2	5	2★	—	82~270	2	500	—
		—	—	☆2SC4939	60	12	—	—	35	60~320	2	2000	—
		—	2SC5103	—	60	5	10	—	10	82~270	2	1000	—
		2SD2150	—	—	20	3	5	2★	—	120~560	2	100	—
New	2SD2391	—	—	60	2	5	2★	—	82~270	2	500	—	
Strobo Flash Low V _{CE(sat)}		— New 2SA1834	—	—	—20	—10	—15	—	10	120~560	—2	—500	—
		2SB1308	—	—	—20	—3	—5	2★	—	82~390	—2	—500	—
		2SB1386	2SB1412	—	—20	—5	—10	2★	10	82~390	—2	—500	—
		—	2SC5001	—	20	10	15	—	10	120~560	2	500	—
		2SD1963	—	—	20	3	5	2★	—	120~560	2	500	—
		2SD2098	2SD2118	—	20	5	10	2★	10	120~560	2	500	—
High h _{FE}		2SB1427	—	—	—20	—2	—3	2★	—	270~1200	—6	—500	—
		2SD2153	—	—	25	2	3	2★	—	390~2700	6	500	—
		—	2SD2318	—	60	3	4.5	—	15	390~1800	4	500	—
Darlington		—	2SB1183	—	—40**	—2	—	—	10	1k~200k	—3	—500	Fig.1
		—	2SB1316	—	—100	—2	—	—	10	1k~10k	—2	—1000	Fig.3
		—	2SB1474	—	—80	—4	—	—	10	1k~10k	—3	—2000	Fig.2
		—	2SD1759	—	40**	2	—	—	10	1k~200k	3	500	Fig.5
		2SD1834	—	—	60*	1	—	2★	—	2k~	3	500	Fig.4
		2SD2195	2SD1980	—	100	2	—	2★	10	1k~10k	2	1000	Fig.6
		2SD2170	—	—	90 ⁺²⁰ ₋₁₀	2	3	2★	—	1k~10k	2	1000	Fig.7
		2SD2212	2SD2143	—	60±10	2	—	2★	10	1k~10k	2	1000	Fig.7
High Voltage SW		2SA1759	—	—	—400	—0.1	—0.2	2★	—	56~270	—10	—10	—
		2SA1812	2SA1727	—	—400	—0.5	—1	2★	10	56~270	—5	—50	—
		—	2SA1862	—	—400	—2	—4	—	10	56~180	—5	—100	—
		—	2SA1807	—	—600	—1	—2	—	10	56~180	—5	—100	—
		2SC4505	—	—	400	0.1	—	2★	—	56~270	10	10	—
		—	—	☆2SC4937	400	2	—	—	35	16~50	5	0.1	—
		—	—	☆2SC4938	400	5	—	—	35	16~50	5	3	—

Notes : 1. ☆ Under development 2. * F5 denotes surface mount version of CPT (SC-64) 3. ★ Package mounted on ceramic 40×40×0.7mm

Transistors

Transistors

Land pattern

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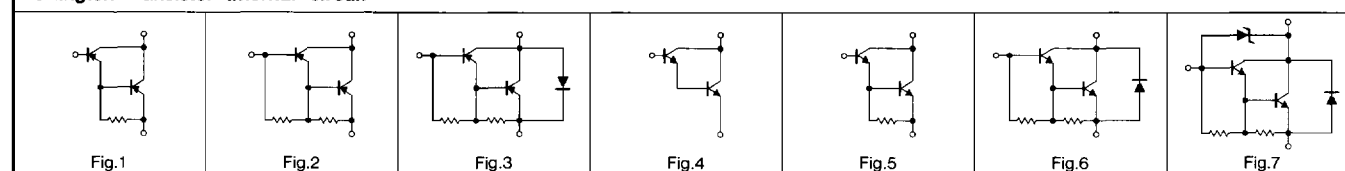
The Cases and Basic ordering Units for Standard and Special Products Units

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Part Marking

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Darlington transistor internal circuit



Transistors

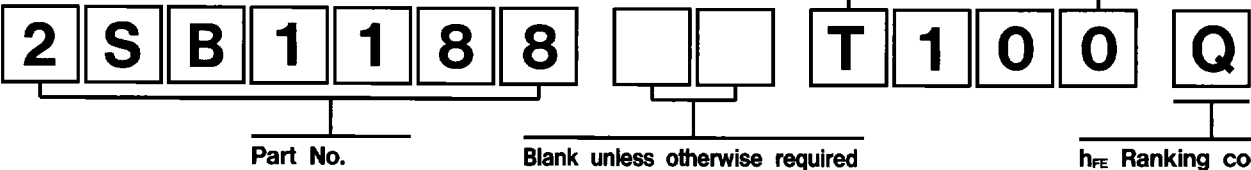
MPT • CPT F5 • PSD

●Product Designation

Specify part No., packaging specification code and h_{FE} ranking code.

Package	MPT	CPT F5	PSD
Code	T101	TL	TL
	T100	TR	TR

Packaging specification code



Code	h_{FE} Range
L	27~56
M	39~82
N	56~120
P	82~180
Q	120~270
R	180~390
S	270~560
E	390~820
U	560~1200
V	820~1800
W	1200~2700
A	1k~
B	5k~
C	10k~

(Unit : mm)

Package	MPT (SOT-89)	CPT F5 (D PAK)	PSD (D ² PAK)
Dimensions	(1) Base (2) Collector (3) Emitter	(1) Base (2) Collector (3) Emitter	(1) Base (2) Collector (3) Emitter
Actual size			
External dimensions (× 1.0)			

●Packaging

Package	Packaging type	Packaging style	Direction	Code	Quantity /Package (pcs)	Quantity /Unit (pcs)
MPT	Taping	Embossed reel tape	Pin 3 side on sprocket hole side	T100	1,000	—
			Fin on sprocket hole side	T101		
CPT F5	Taping	Embossed reel tape	Fin on sprocket hole side	TL	2,500	—
			Pin 3 side on sprocket hole side	TR		
PSD	Taping	Embossed reel tape	Fin on sprocket hole side	TL	1,000	—
			Pin 3 side on sprocket hole side	TR		
	Bulk	Polyethylene bag	—	—	2,000	200
	Bulk	Polyethylene bag	—	—	500	100

●Packaging Specifications

(Unit : mm)

Reel	Tape
MPT (SOT-89)	
CPT F5 (D PAK)	
PSD (D ² PAK)	

Transistors

Transistors

Land pattern

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The Class and Basic marking units for Standard and Semi-standard Products Units

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Part Marking

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