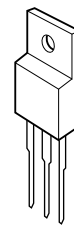


Quick Reference by Package



MP-45
(MP-25 Insulated type)



MP-45F
(MP-25 Insulated type)

■ MP-45, MP-45F (TO-220 Insulated Type) Transistor

V _{CEO} (V) I _{C(DC)} (A)	-60		-100		-150	-300	-400
	MP-45	MP-45F	MP-45	MP-45F	MP-45	MP-45	MP-45
-2.0			{ 2SA1395 2SC3567		{ 2SB1096 2SD1587		2SC3569
-3.0	{ 2SB1094 2SD1585 2SD1593 ●	2SD2164 ●					
-4.0			2SD1586				
-5.0	{ 2SA1394 2SC3566 2SA1441 ⊙ 2SC3691 ⊙ 2SC4351* 2SD1595*	{ 2SA1741 ⊙ 2SC4549 ⊙	{ 2SA1718 2SC4352 2SB1098 2SD1589 2SA1650 ⊙ 2SC4334 ⊙	{ 2SB1430 2SD2161		2SD1592	2SC3570
-6.0			2SD1594 ●	2SD2165 ●			
-7.0	{ 2SB1097 2SD1588 2SA1442 ⊙ 2SC3692 ⊙	{ 2SA1742 ⊙ 2SC4550 ⊙	{ 2SC4062 2SA1651 ⊙ 2SC4335 ⊙	2SC4553			2SC3571
-8.0			{ 2SA1719 2SD1928 2SB1099 2SD1590	{ 2SA1833 2SB1431 2SD2162			
-10	{ 2SA1443 ⊙ 2SC3693 ⊙	{ 2SA1743 ⊙ 2SC4551 ⊙	{ 2SA1396 2SC3568 2SA1652 ⊙ 2SC4336 ⊙ 2SA1720 2SC4353 2SB1100 2SD1591	{ 2SB1432 2SD2163			2SC3572
-15	{ 2SA1444 ⊙ 2SC3694	{ 2SA1744 ⊙ 2SC4552 ⊙	2SC4063	2SC4554			

□: Darlington transistor, { : Complementary pair, *: Internal zener diode between C-B, ⊙: Low V_{CE(sat)}, ●: Single High h_{FE}

Quick Reference Table by Function/Application

■ **Darlington Transistor**

Charac- teristics V _{CEO} , I _{C(DC)}	SP-8	MP-3	MP-5 (TO-126)	MP-25 (TO-220)	MP-10	MP-40	MP-45	MP-45F	MP-80
31 V, 2 A	2SD2463*		2SD1695*						
60 V, 0.8 A	2SD1700*								
60 V, 1 A	2SD1843	{ 2SB963 2SD1286 2SC4337⊙	{ 2SD1630* 2SC4340⊙						
60 V, 1.5 A		2SD1164	{ 2SB794 2SD985 2SB1111* 2SD1491*						
60 V, 3 A			{ 2SB1150* 2SD1693*						
60 V, 5 A				2SD1564*		{ 2SD1392* 2SC4347⊙*	{ 2SD1595* 2SC4351⊙		
80 V, 0.8 A	2SD1697								
80 V, 1.5 A	{ 2SB1093 2SD1579		{ 2SB795 2SD986						
80 V, 2 A		2SC4338⊙	2SC4341						
100 V, 3 A		2SC4339	{ 2SB1149 2SD1692 2SA1714⊙ 2SC4342⊙						
100 V, 5 A		2SC4345		{ 2SB601 2SD560	{ 2SA1840 2SC4810	{ 2SA1715⊙ 2SC4348⊙	{ 2SA1718⊙ 2SC4352⊙		
				{ 2SB1087 2SD1565		{ 2SB974 2SD1308	{ 2SB1098 2SD1589	{ 2SB1430 2SD2161	
100 V, 8 A					{ 2SA1841 2SC4811	{ 2SA1716⊙ 2SC4349⊙ 2SB975 2SD1309	{ 2SA1719⊙ 2SD1928⊙ 2SB1099 2SD1590	{ 2SB1431 2SD2162 2SA1833⊙	
100 V, 10 A					{ 2SA1842 2SC4812	{ 2SA1717⊙ 2SC4350⊙	{ 2SA1720⊙ 2SC4353⊙ 2SB1100 2SD1591	{ 2SB1432 2SD2163	{ 2SB897 2SD1210
100 V, 15 A									2SD1296
100 V, 25 A									2SD1297
300 V, 5 A				2SD1162			2SD1592		
400 V, 5 A				2SD987					
400 V, 10 A									2SD1298

⊙: High speed darlington transistor, *: Internal zener diode between C-B