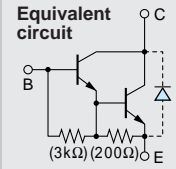


Darlington

2SD2014



Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SB1257)

Application : Driver for Solenoid, Relay and Motor, Series Regulator, and General Purpose

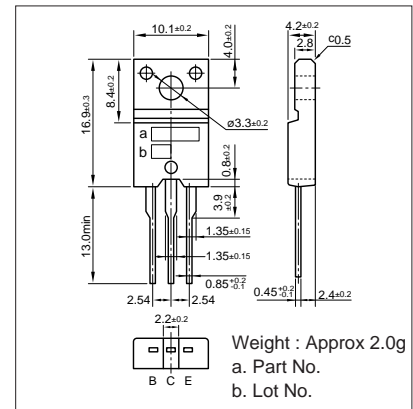
Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	120	V
V _{CEO}	80	V
V _{EB0}	6	V
I _C	4	A
I _B	0.5	A
P _C	25(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
I _{CB0}	V _{CB} =120V	10max	μA
I _{EB0}	V _{EB} =6V	10max	mA
V _{(BR)CEO}	I _C =10mA	80min	V
h _{FE}	V _{CE} =2V, I _C =3A	2000min	
V _{CE(sat)}	I _C =3A, I _B =3mA	1.5max	V
V _{BE(sat)}	I _C =3A, I _B =3mA	2.0max	V
f _T	V _{CE} =12V, I _E =-0.1A	75typ	MHz
COB	V _{CB} =10V, f=1MHz	45typ	pF

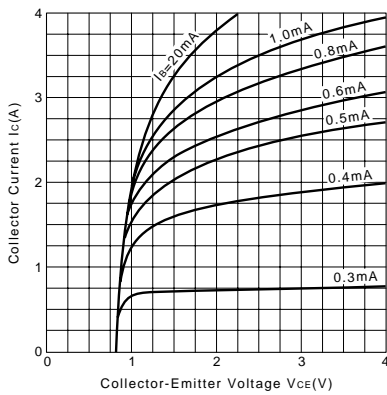
External Dimensions FM20(TO220F)



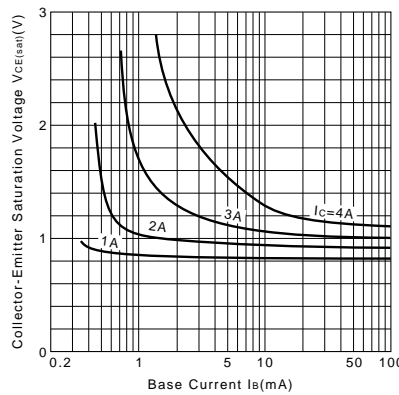
Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
30	10	3	10	-5	10	-10	1.0typ	4.0typ	1.5typ

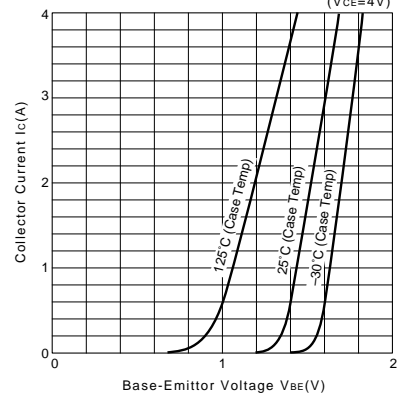
I_C-V_{CE} Characteristics (Typical)



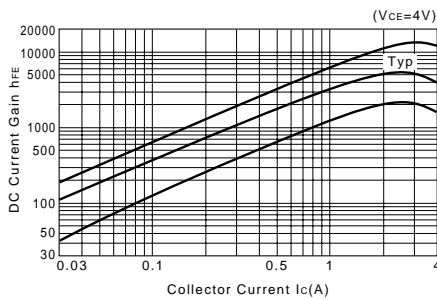
V_{CE(sat)}-I_B Characteristics (Typical)



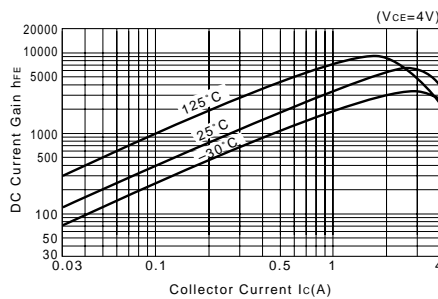
I_C-V_{BE} Temperature Characteristics (Typical)



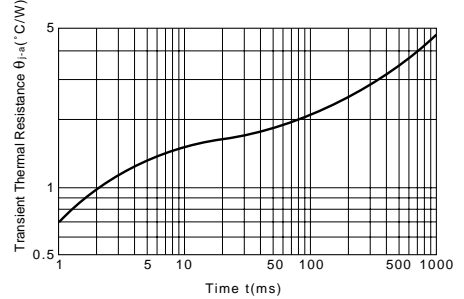
h_{FE}-I_C Characteristics (Typical)



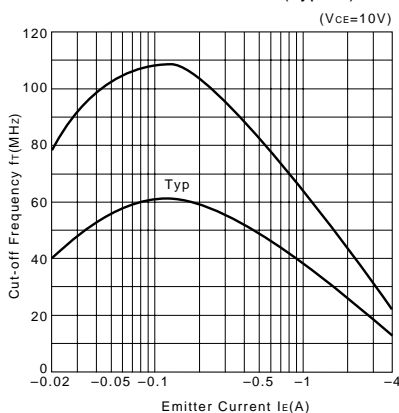
h_{FE}-I_C Temperature Characteristics (Typical)



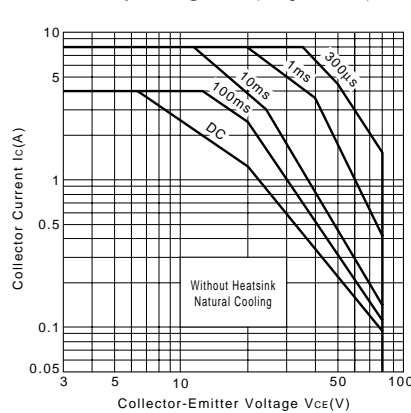
θ_{J-a}-t Characteristics



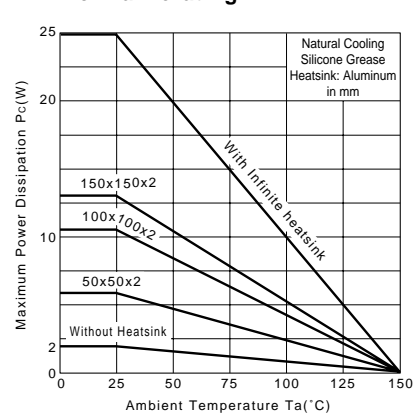
f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Darlington Transistors](#) category:

Click to view products by [Sanken](#) manufacturer:

Other Similar products are found below :

[BDV64B](#) [2N6298](#) [NJVMJD117T4G](#) [2N6053](#) [MPSA63](#) [NTE256](#) [TIP120](#) [MJ11028](#) [TIP127](#) [Jantx2N6352](#) [2N6301](#) [NJVBUB323ZT4G](#)
[ULN2803QN](#) [KID65004AF-EL/P](#) [ULN2803CDWR](#) [MJ11033G-JSM](#) [MMBTA64](#) [TPM2003-SO3R](#) [KSP13](#) [TIP127](#) [TIP122](#) [TIP122F](#)
[TIP122-JSM](#) [ULN2003A-JSM](#) [MJ11032G-JSM](#) [KID65783BF-EL/P](#) [ULN2001D\(MS\)](#) [2SD1071](#) [TIP160](#) [2N6287](#) [MJ3001](#) [MJ2501](#)
[ULN2001D\(UMW\)](#) [ULN2003APWR\(UMW\)](#) [ULN2003AIPWR\(UMW\)](#) [ULN2002D\(UMW\)](#) [ULN2803G-P20-R](#) [WD2002](#)
[AIP2003LSA16.TB](#) [AIP2803SA.TR](#) [AIP2803](#) [AIP2803LSA18.TB](#) [XL2803CD](#) [ULN2004MT/TR](#) [MMBTA13](#) [MJD127](#) [MJD122](#)
[ULN2003IPWRG](#) [ULN2803ADWMRG](#) [MC1413DRG](#)