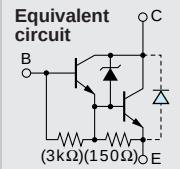


2SD1796



Silicon NPN Triple Diffused Planar Transistor

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

■ Absolute maximum ratings (Ta=25°C)

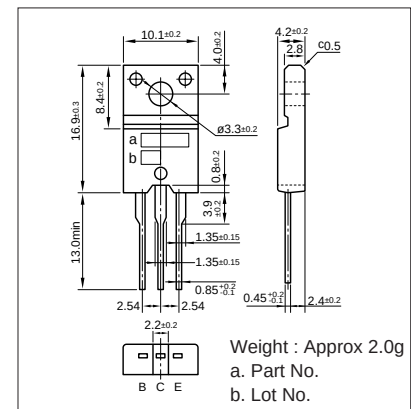
Symbol	Ratings	Unit
VCBO	60±10	V
VCEO	60±10	V
VEBO	6	V
IC	4	A
IB	0.5	A
PC	25(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

■Electrical Characteristics

($T_a=25^{\circ}\text{C}$)

Symbol	Conditions	Ratings	Unit
ICBO	V _{CB} =50V	10max	μA
IEBO	V _{EB} =6V	10max	mA
V _{(BR)CEO}	I _C =10mA	60±10	V
h _{FE}	V _{CE} =4V, I _C =3A	2000min	
V _{CE(sat)}	I _C =3A, I _B =10mA	1.5max	V
f _T	V _{CE} =12V, I _E =-0.2A	60typ	MHz
C _{OB}	V _{CB} =10V, f=1MHz	45 typ	pF

External Dimensions FM20(TO220F)

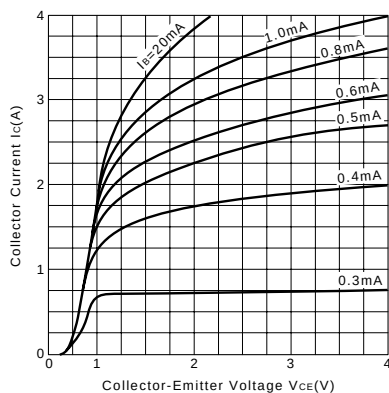


Weight : Approx 2.0g

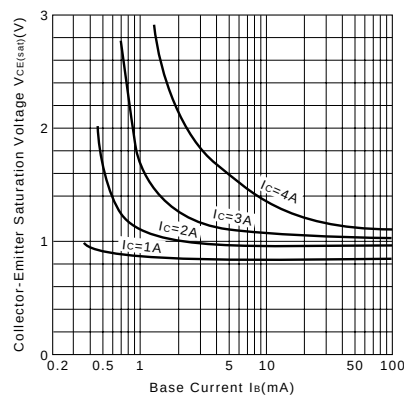
a. Part No.

b. Lot No.

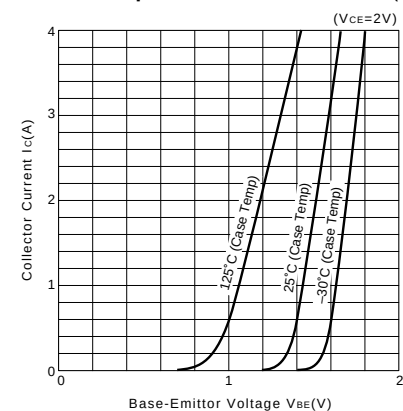
I_C-V_{CE} Characteristics (Typical)



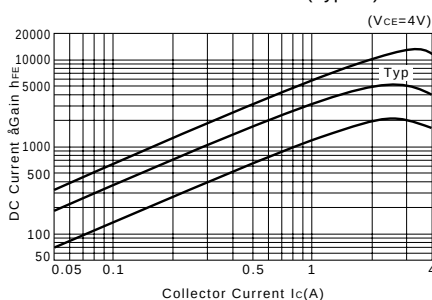
V_{CE(sat)}-I_B Characteristics (Typical)



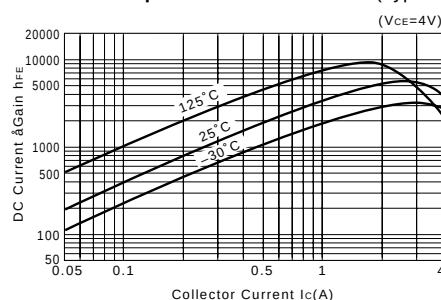
IC-V_{BE} Temperature Characteristics (Typical)



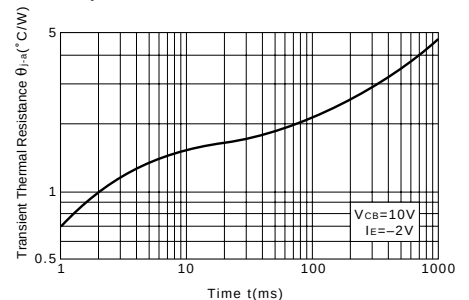
$h_{FE}-I_C$ Characteristics (Typical)



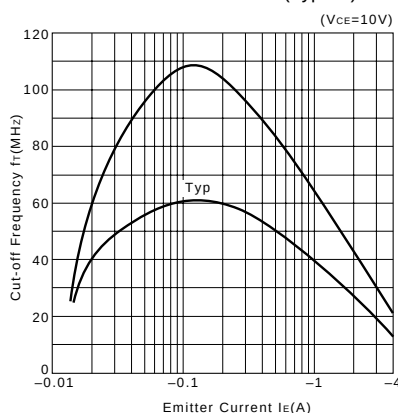
h_{FE} - I_C Temperature Characteristics (Typical)



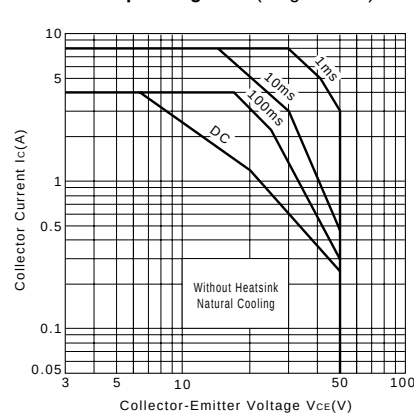
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

