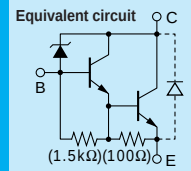


2SD2141



Silicon NPN Triple Diffused Planar Transistor

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

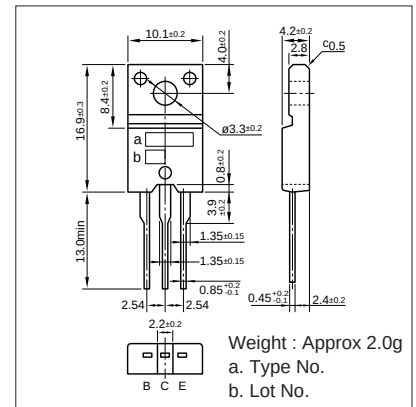
■ Absolute maximum ratings (Ta=25°C)

Symbol	2SD2141	Unit
VCBO	380±50	V
VCEO	380±50	V
VEBO	6	V
Ic	6(Pulse10)	A
IB	1	A
Pc	35(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

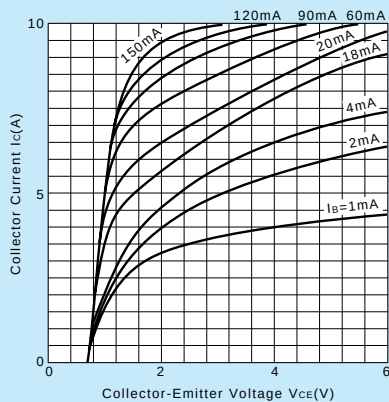
■ Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SD2141	Unit
ICBO	V _{CB} =330V	10max	μA
IEBO	V _{EB} =6V	20max	mA
V _{(BR)CEO}	I _C =25mA	330 to 430	V
h _{FE}	V _{CE} =2V, I _C =3A	1500min	
V _{CE(sat)}	I _C =4A, I _B =20mA	1.5max	V
f _r	V _{CE} =12V, I _E =-0.5A	20typ	MHz
COB	V _{CB} =10V, f=1MHz	95typ	pF

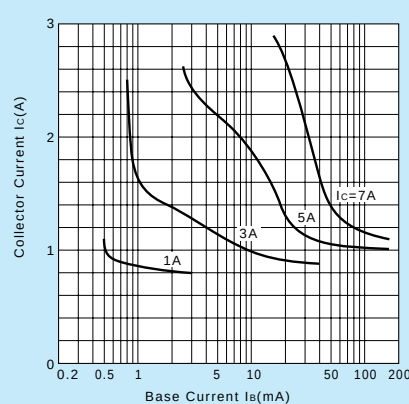
External Dimensions FM20(TO220F)



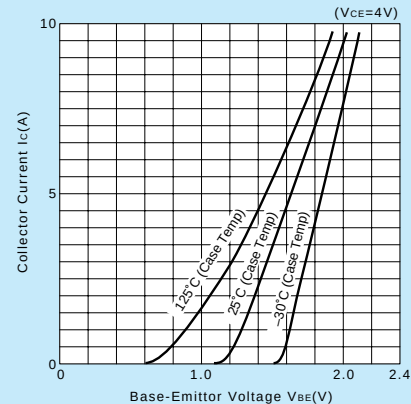
I_C - V_{CE} Characteristics (Typical)



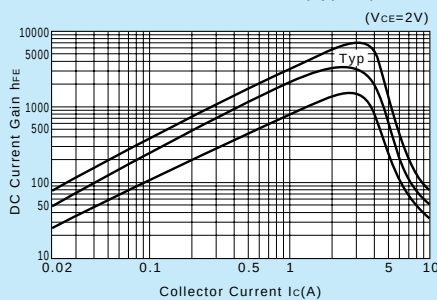
V_{CE(sat)}-I_B Characteristics (Typical)



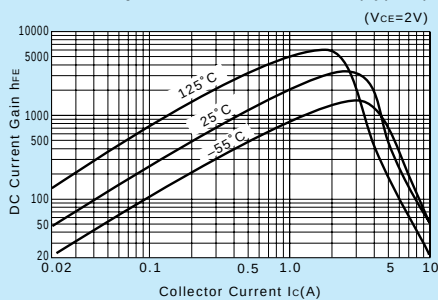
I_C-V_{BE} Temperature Characteristics (Typical)



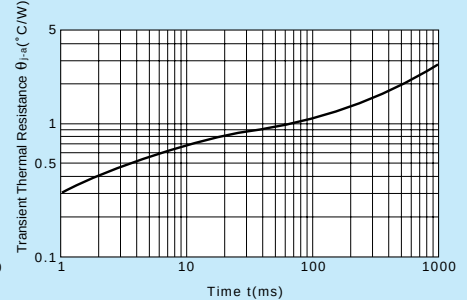
$h_{FE}-I_C$ Characteristics (Typical)



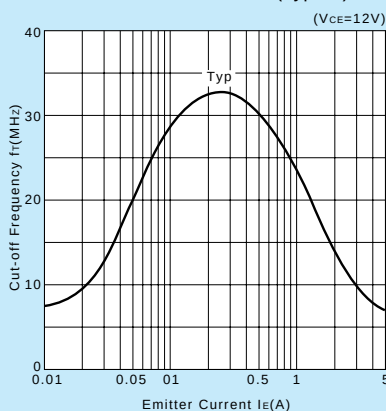
h_{FE} - I_C Temperature Characteristics (Typical)



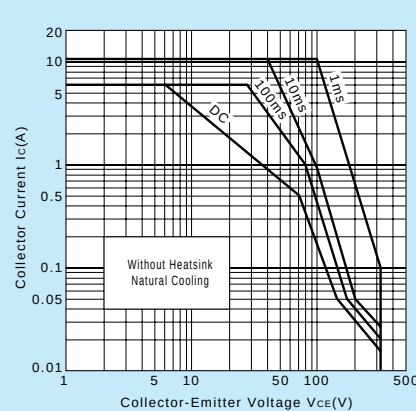
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

