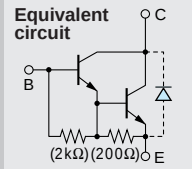


Darlington

2SD2081



Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SB1259)

Application : Driver for Solenoid, Motor and General Purpose

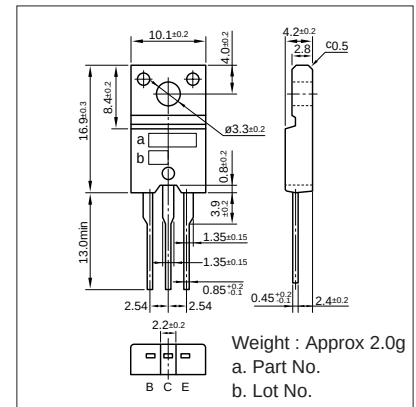
■Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
VCBO	120	V
VCEO	120	V
VEBO	6	V
IC	10(Pulse15)	A
IB	1	A
Pc	30(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

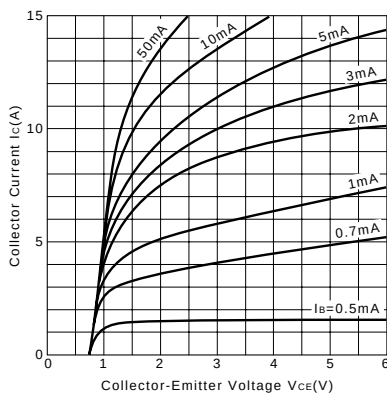
■Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
ICBO	VCB=120V	10max	μA
IEBO	VEB=6V	10max	mA
V(BR)CEO	IC=10mA	120min	V
hFE	VCE=4V, IC=5A	2000min	
VCE(sat)	IC=5A, IB=5mA	1.5max	V
VBE(sat)	IC=5A, IB=5mA	2.0max	V
fr	VCE=12V, IE=-0.5A	60typ	MHz
COB	VCB=10V, f=1MHz	95typ	pF

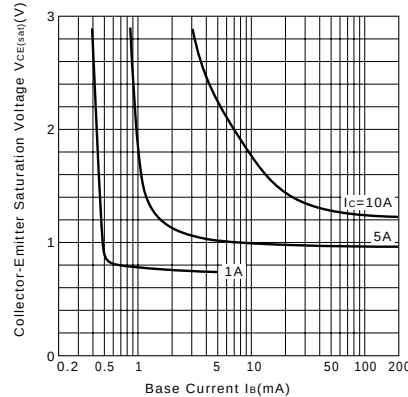
External Dimensions FM20(TO220F)



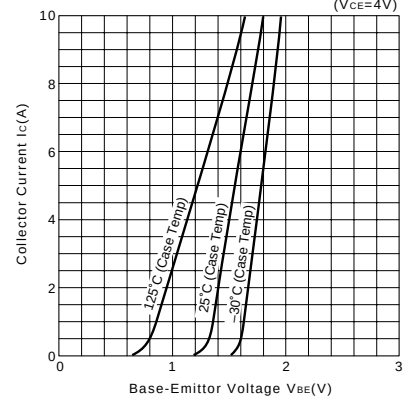
IC-VCE Characteristics (Typical)



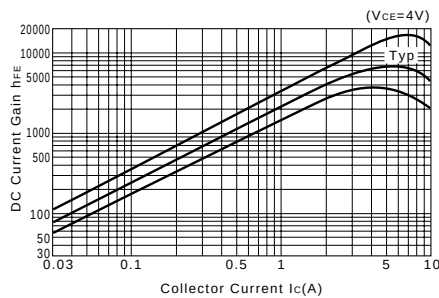
VCE(sat)-IB Characteristics (Typical)



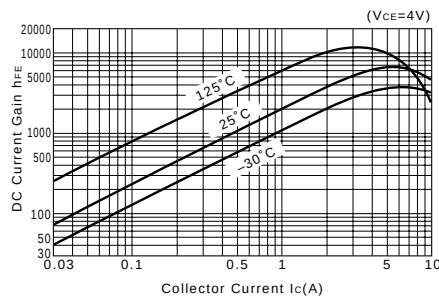
IC-VBE Temperature Characteristics (Typical)



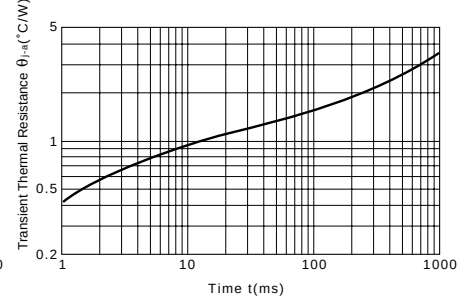
hFE-IC Characteristics (Typical)



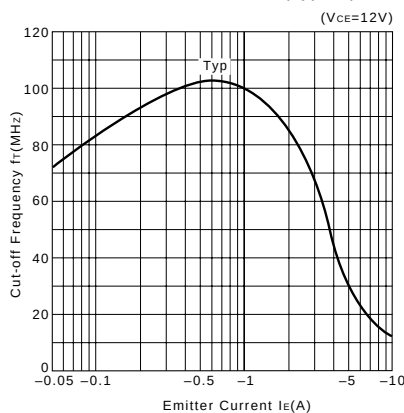
hFE-IC Temperature Characteristics (Typical)



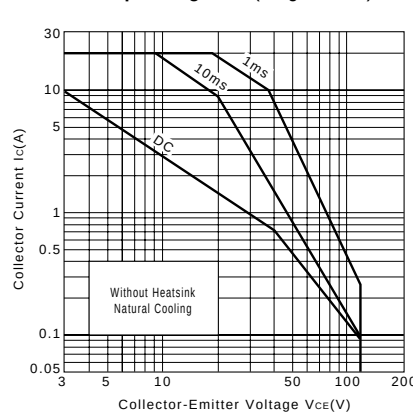
θj-a-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

