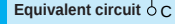


2SB1259



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

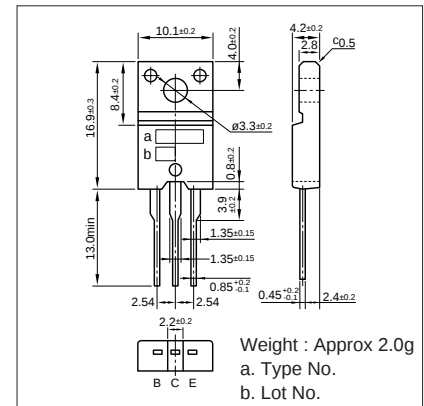
■ Absolute maximum ratings (Ta=25°C)

Symbol	2SB1259	Unit
VCBO	-120	V
VCEO	-120	V
VEBO	-6	V
Ic	-10(Pulse-15)	A
Ib	-1	A
Pc	30(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

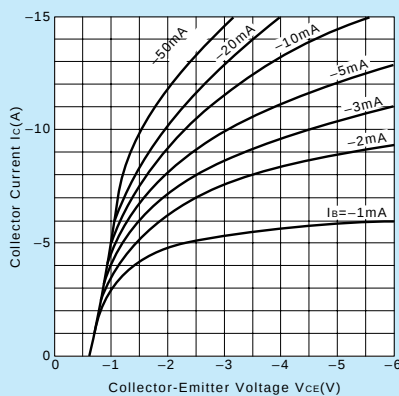
■ Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SB1259	Unit
ICBO	$V_{CB} = -120V$	-10max	μA
IEBO	$V_{EB} = -6V$	-10max	mA
$V_{(BR)CEO}$	$I_C = -10mA$	-120min	V
h_{FE}	$V_{CE} = -4V, I_C = -5A$	2000min	
$V_{CE(sat)}$	$I_C = -5A, I_B = -10mA$	-1.5max	V
$V_{BE(sat)}$	$I_C = -5A, I_B = -10mA$	-2.0max	V
f _T	$V_{CE} = -12V, I_E = 0.2A$	100typ	MHz
C _{OB}	$V_{CB} = -10V, f = 1MHz$	145typ	pF

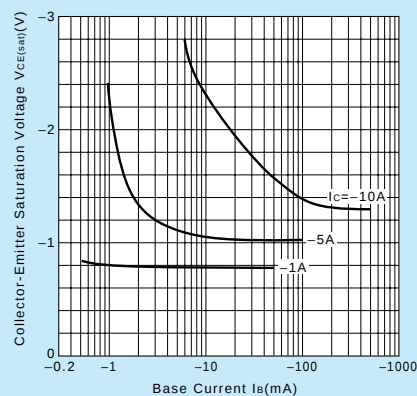
External Dimensions FM20(TO220F)



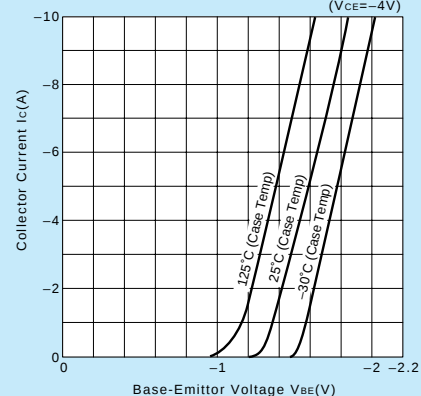
I_C - V_{CE} Characteristics (Typical)



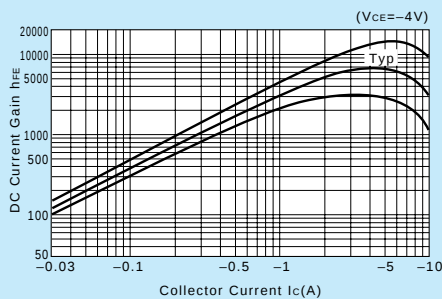
V_{CE(sat)}-I_B Characteristics (Typical)



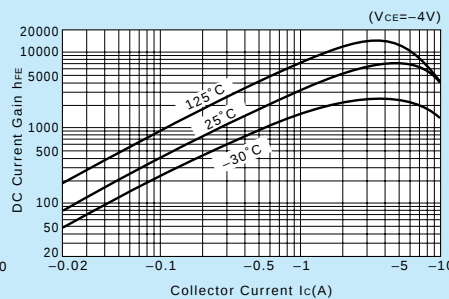
I_C-V_{BE} Temperature Characteristics (Typical)



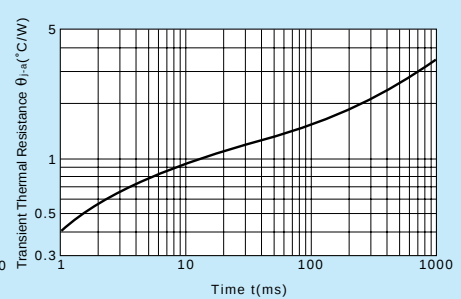
$h_{FE}-I_C$ Characteristics (Typical)



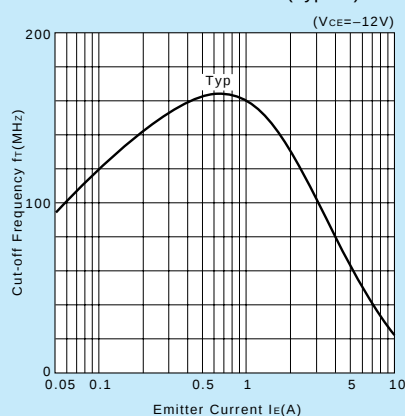
h_{FE} - I_C Temperature Characteristics (Typical)



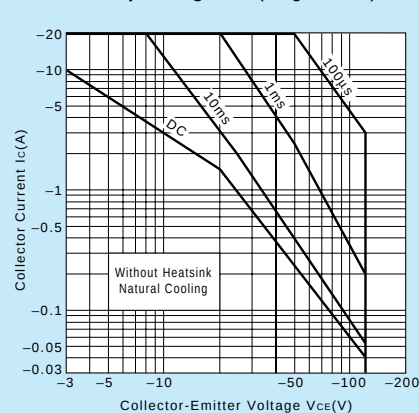
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

