

Equivalent circuit

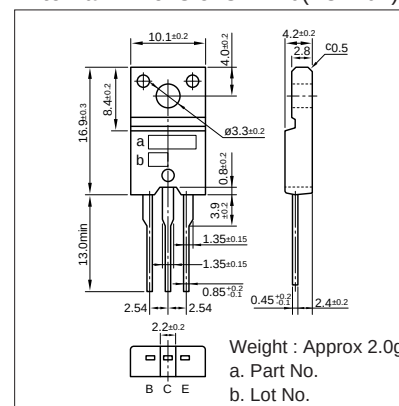
(2.5kΩ)(200Ω)

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

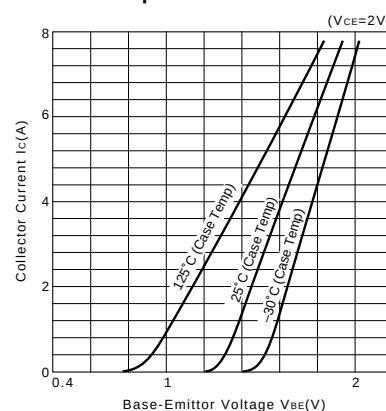
External Dimensions FM20(TO220F)

Symbol	Conditions	Ratings	Unit
ICBO	$V_{CB}=120V$	10max	μA
IEBO	$V_{EB}=6V$	10max	mA
$V_{(BR)CEO}$	$I_C=10mA$	120min	V
h_{FE}	$V_{CE}=2V, I_C=3A$	2000min	
$V_{CE(sat)}$	$I_C=2A, I_B=3mA$	1.5max	V
f_T	$V_{CE}=12V, I_E=-0.1A$	100typ	MHz
COB	$V_{CB}=10V, f=1MHz$	70typ	pF

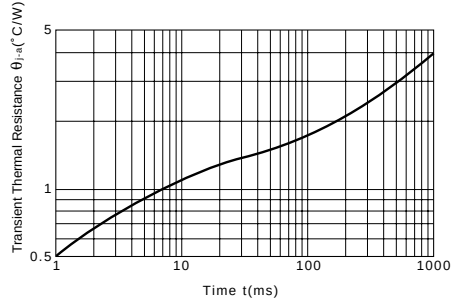
V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
30	10	3	10	-1.5	3	-3	0.5t _{vp}	5.5t _{vp}	1.5t _{vp}



I_C-V_{BE} Temperature Characteristics (Typical)



θ_{j-a-t} Characteristics



Pc-Ta Derating

