

Power Transistor MN638S

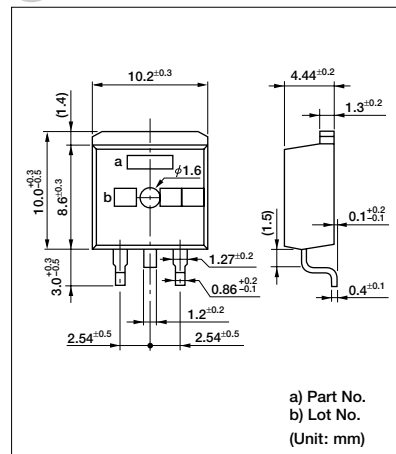
Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Symbol	Ratings	Unit
V_{CB0}	380 ± 50	V
V_{CE0}	380 ± 50	V
V_{EB0}	6	V
I_C	6 (pulse 10)	A
I_B	1	A
P_C	60 ($T_C=25^\circ\text{C}$)	W
T_j	150	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$

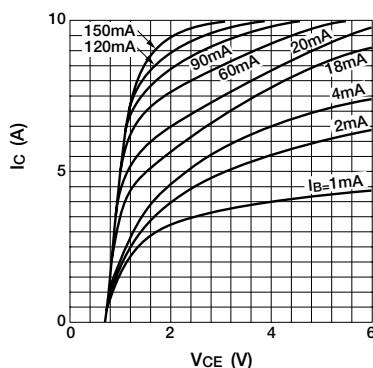
Electrical Characteristics

Symbol	Test Conditions	Ratings	Unit
I_{CBO}	$V_{CB}=330\text{V}$	10max	μA
I_{EBO}	$V_{EB}=6\text{V}$	20max	mA
$V_{(BR)CE0}$	$I_C=25\text{mA}$	330 to 430	V
h_{FE}	$V_{CE}=2\text{V}$, $I_C=3\text{A}$	1500min	
$V_{CE(sat)}$	$I_C=4\text{A}$, $I_B=20\text{mA}$	1.5max	V

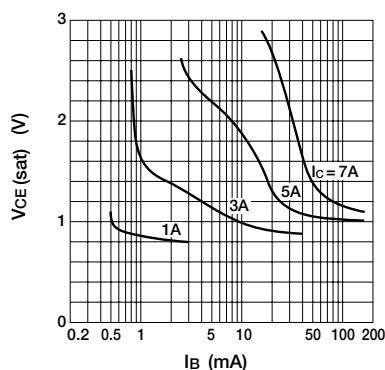
External Dimensions TO220S



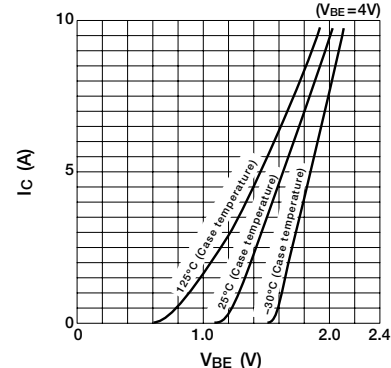
■ $I_C - V_{CE}$ Characteristics (typ.)



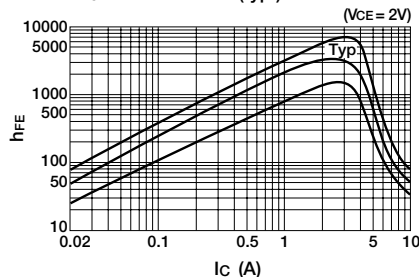
■ $V_{CE(sat)} - I_B$ Characteristics (typ.)



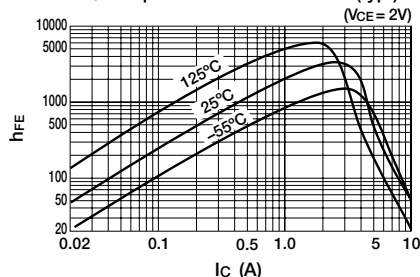
■ $I_C - V_{BE}$ Temperature Characteristics (typ.)



■ $h_{FE} - I_C$ Characteristics (typ.)



■ $h_{FE} - I_C$ Temperature Characteristics (typ.)



■ $\theta_{j-c} \cdot \theta_{j-a} - t$ Characteristics

