

# New Jersey Semi-Conductor Products, Inc.

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## Absolute Maximum Ratings

Symbol	2SC2315	2SC2316	Unit
$V_{CB0}$	80	100	V
$V_{CE0}$	60	80	V
$V_{EBO}$	6		V
$I_C$	6		A
$I_B$	3		A
$P_C$	50 ( $T_{FL}=25^{\circ}C$ )		W
$T_J$	150		$^{\circ}C$
$T_{stg}$	-55~+150		$^{\circ}C$

## Silicon NPN Triple Diffused Mesa

☆ Super Beta Transistor

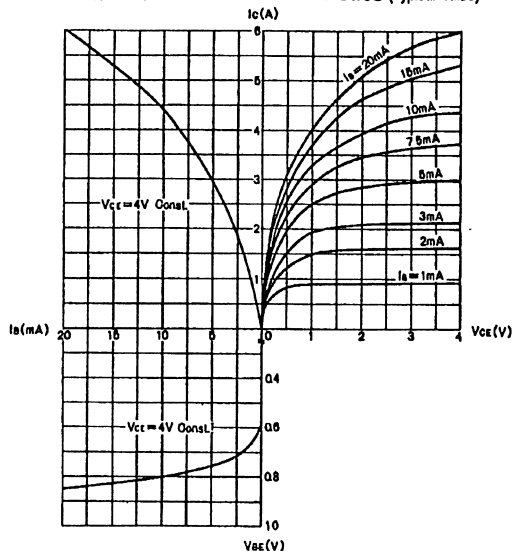
Application Example :  
General Purpose

● Outline Drawing 1 ..... MT-25(TO220)

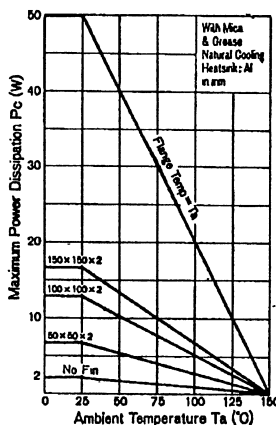
## Electrical Characteristics

Symbol	Conditions	2SC2315	2SC2316	Unit
$I_{CBO}$	$V_{CB}=$	100max	100max	$\mu A$
$I_{EBO}$	$V_{EB}=6V$		1.0max	mA
$V_{(BR)CEO}$	$I_C=25mA$	60min	80min	V
$h_{FE}$	$V_{CE}=4V, I_C=0.5A$		500min	
$V_{CE(sat)}$	$I_C=3A, I_B=0.06A$		1.0max	V
$f_T$	$V_{CE}=12V, I_E=-0.5A$		30typ	MHz

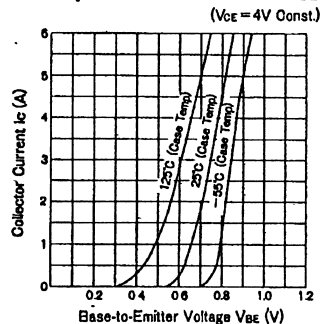
## Common Emitter Characteristics (Typical Value)



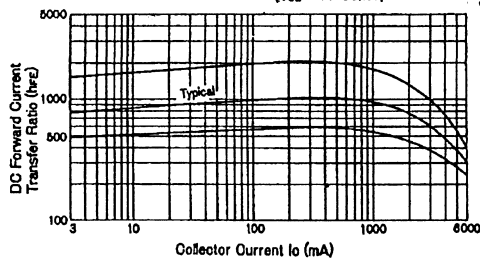
## Power Derating



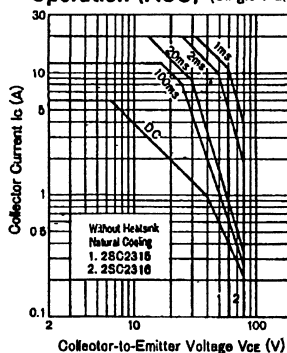
## Temperature Characteristics



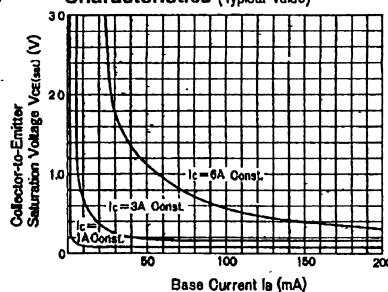
## DC Current Gain Characteristics



## Maximum Areas For Safe Operation (ASO) (Single Pulse)



## Collector-to-Emitter Saturation Characteristics (Typical Value)



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