

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960



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 ($T_{FL}=25^{\circ}O$)		W
T_J	150		$^{\circ}C$
T_{stg}	-55~+150		$^{\circ}C$

Silicon NPN Triple Diffused Mesa

☆ Super Beta Transistor

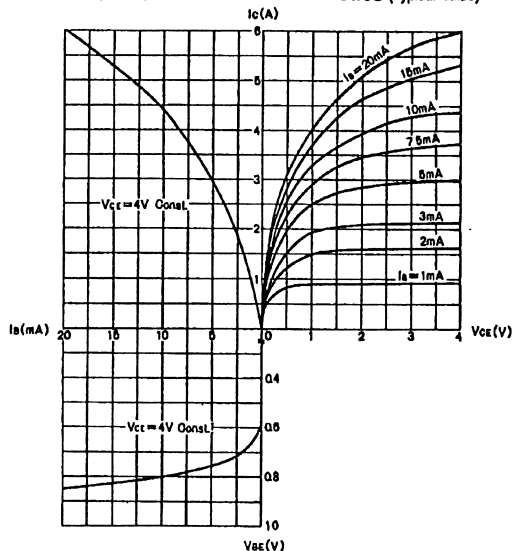
Application Example :
General Purpose

● Outline Drawing 1 MT-25(TO220)

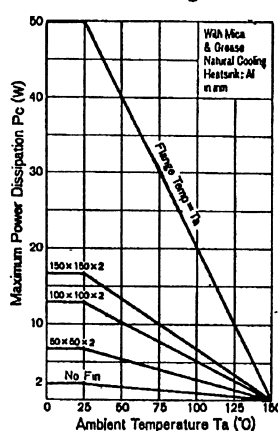
Electrical Characteristics

Symbol	Conditions	2SC2315	2SC2316	Unit
I_{CBO}	$V_{CB}=$	100max	100max	μA
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

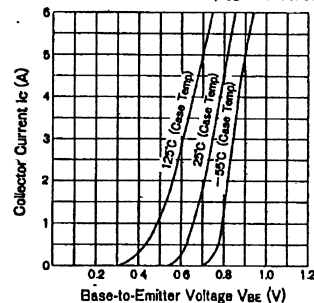
Common Emitter Characteristics (Typical Value)



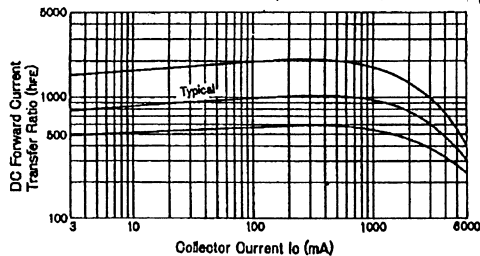
Power Derating



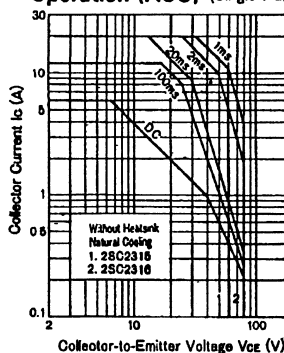
Temperature Characteristics



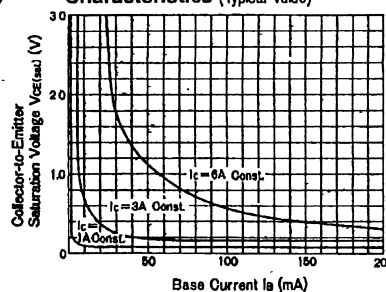
DC Current Gain Characteristics



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



Collector-to-Emitter Saturation Characteristics (Typical Value)



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.