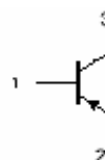


DESCRIPTION

- With TO-3 package
 - Complement to type MJ15022G; MJ15024G
 - Excellent safe operating area
 - High DC current gain
- $h_{FE} = 15 \text{ (Min) @ } I_C = 8 \text{ Adc}$


APPLICATIONS

- Designed for high power audio, disk head positioners and other linear applications

Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	MJ15023G	Open emitter	-350	V
		MJ15025G		-400	
V_{CEO}	Collector-emitter voltage	MJ15023G	Open base	-200	V
		MJ15025G		-250	
V_{EBO}	Emitter-base voltage		Open collector	-5	V
I_C	Collector current			-16	A
I_{CM}	Collector current-peak			-30	A
I_B	Base current			-5	A
P_D	Total power dissipation		$T_C=25$	250	W
T_j	Junction temperature			150	
T_{stg}	Storage temperature			-65~200	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	0.70	/W

CHARACTERISTICS
T_j=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(SUS)}$	Collector-emitter sustaining voltage	MJ15023G	$I_C=0.1A ; I_B=0$	-200			V
		MJ15025G		-250			
$V_{CEsat-1}$	Collector-emitter saturation voltage		$I_C=8A ; I_B=0.8A$			-1.4	V
$V_{CEsat-2}$	Collector-emitter saturation voltage		$I_C=16A ; I_B=3.2A$			-4.0	V
V_{BE}	Base-emitter on voltage		$I_C=8A ; V_{CE}=4V$			-2.2	V
I_{CEO}	Collector cut-off current	MJ15023G	$V_{CE}=150V ; I_B=0$			-0.5	mA
		MJ15025G	$V_{CE}=200V ; I_B=0$				
I_{CEX}	Collector cut-off current	MJ15023G	$V_{CE}=200V ; V_{BE(off)}=1.5V$			-0.25	mA
		MJ15025G	$V_{CE}=250V ; V_{BE(off)}=1.5V$				
I_{EBO}	Emitter cut-off current		$V_{EB}=5V ; I_C=0$			-0.5	mA
h_{FE-1}	DC current gain		$I_C=8A ; V_{CE}=4V$	15		60	
h_{FE-2}	DC current gain		$I_C=16A ; V_{CE}=4V$	5			
$I_{S/b}$	Second breakdown collector current with base forward biased		$V_{CE}=50Vdc, t=0.5s,$ $V_{CE}=80Vdc, t=0.5s, Nonrepetitive$	-5.0 -2.0			A
C_{OB}	Output capacitance		$I_E=0 ; V_{CB}=10V ; f=1.0MHz$			500	pF
f_T	Transition frequency		$I_C=1A ; V_{CE}=10V ; f=1.0MHz$	4			MHz

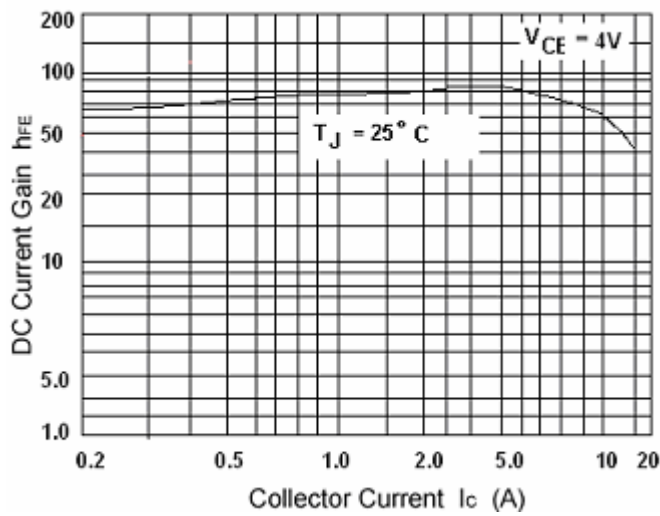


Fig.3 DC current Gain

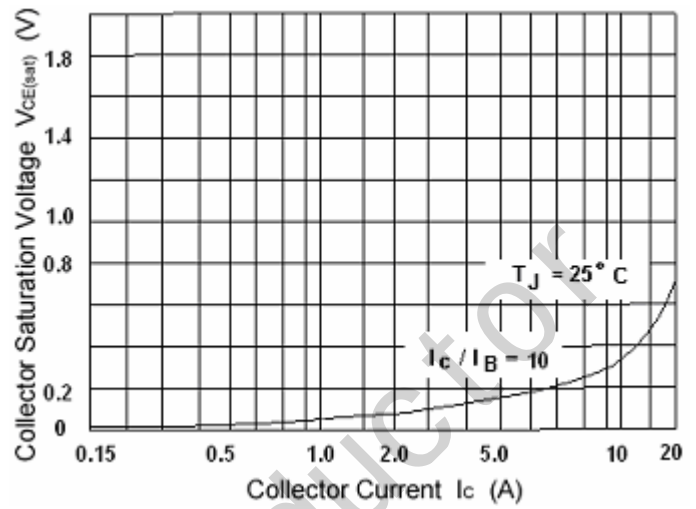


Fig.4 Collector-Emitter Saturation Voltage

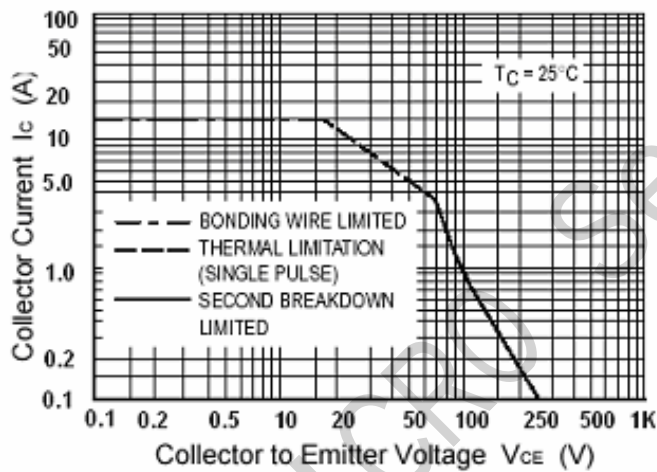


Fig.5 Safe Operating Area

PACKAGE OUTLINE

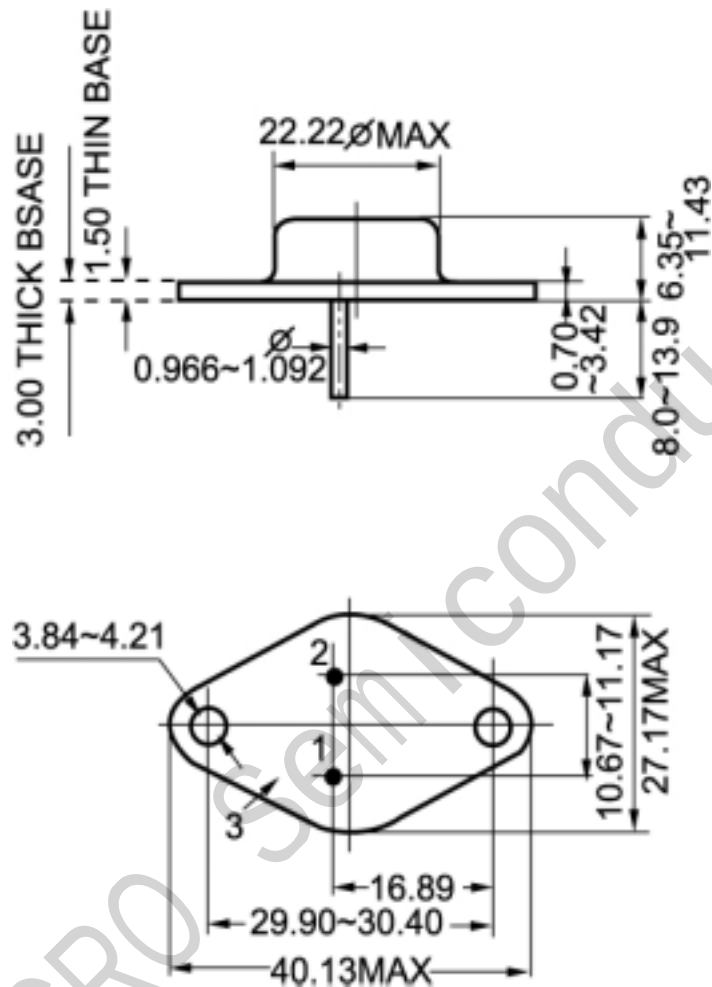


Fig.2 outline dimensions (unindicated tolerance: $\pm 0.1\text{mm}$)

单击下面可查看定价，库存，交付和生命周期等信息

[>>JSMSEMI\(杰盛微\)](#)