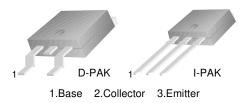


SEMICONDUCTOR®

MJD29/29C

General Purpose Amplifier Load Formed for Surface Mount Applications Load Formed for Surface Mount Application (No Suffix) Straight Lead (I-PAK, "- I" Suffix)

- Electrically Similar to Popular TIP29 and TIP29C



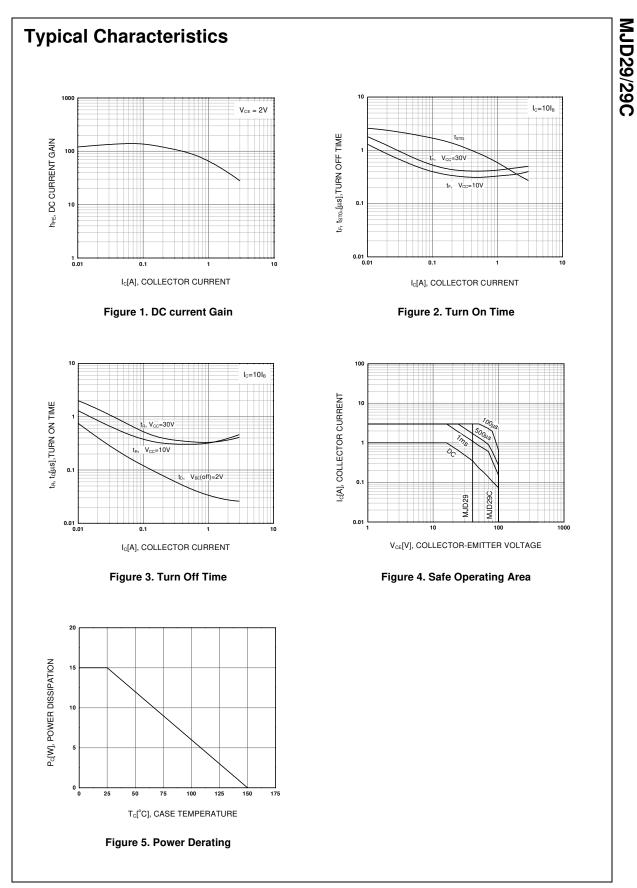
NPN Epitaxial Silicon Transistor

Absolute Maximum	Ratings $T_{C}=25^{\circ}C$ unless otherwise noted
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Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: MJD29	40	V
	: MJD29C	100	V
V _{CEO}	Collector-Emitter Voltage		
	: MJD29	40	V
	: MJD29C	100	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	1	А
I _{CP}	Collector Current (Pulse)	3	А
	Base Current	0.4	А
I _B P _C	Collector Dissipation (T _C =25°C)	15	W
	Collector Dissipation (T _a =25°C)	1.56	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

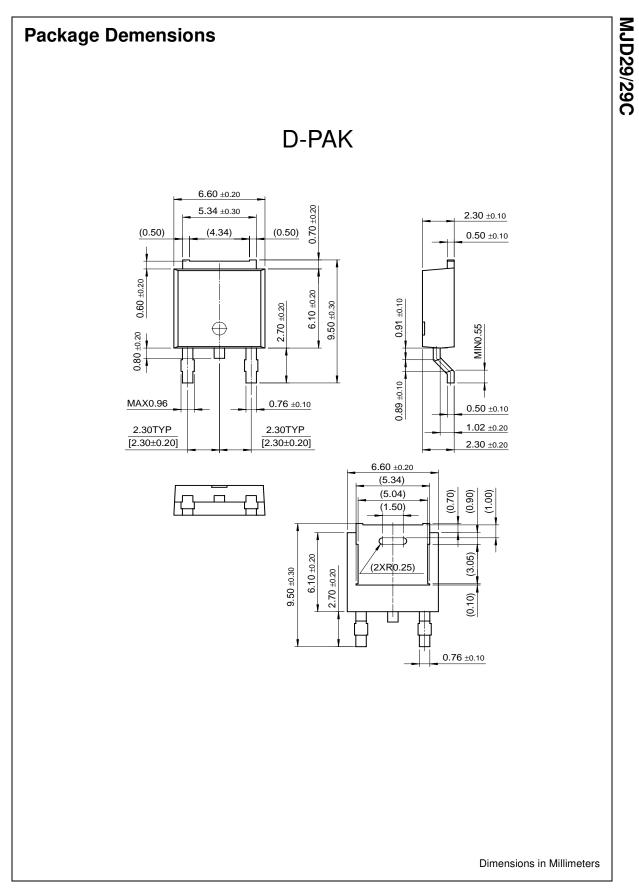
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	*Collector-Emitter Sustaining Voltage				
020	: MJD29	$I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 0$	40		V
	: MJD29C		100		V
ICEO	Collector Cut-off Current				
	: MJD29	$V_{CF} = 40V, I_{B} = 0$		50	μΑ
	: MJD29C	$V_{CE} = 60V, I_B = 0$		50	μA
I _{CES}	Collector Cut-off Current				
	: MJD29	$V_{CE} = 40V, V_{BE} = 0$		20	μA
	: MJD29C	$V_{CE} = 100V, V_{BE} = 0$		20	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$		1	mA
h _{FE}	*DC Current Gain	$V_{CE} = 4V, I_{C} = 0.2A$	40		
		$V_{CE} = 4V, I_{C} = 1A$	15	75	
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	I _C = 1A, I _B = 125mA		0.7	V
V _{BE} (on)	*Base-Emitter ON Voltage	$V_{CE} = 4A, I_C = 1A$		1.3	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 200mA$	3		MHz



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