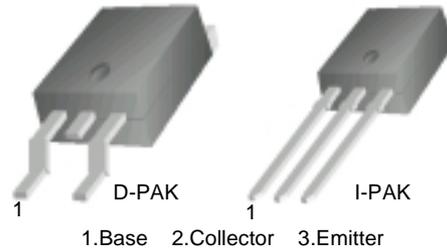


MJD29/29C

General Purpose Amplifier Low Speed Switching Applications

- Load Formed for Surface Mount Application (No Suffix)
- Straight Lead (I.ACK, "- I" Suffix)
- Electrically Similar to Popular TIP29 and TIP29C



NPN Epitaxial Silicon Transistor

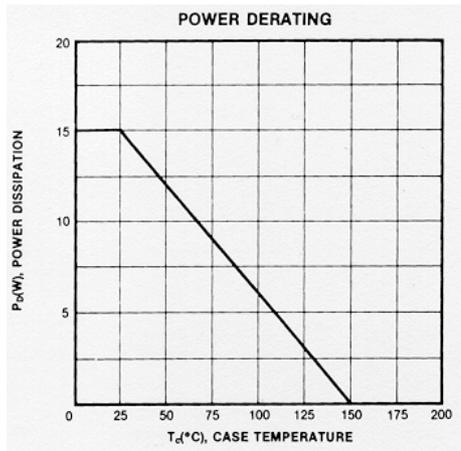
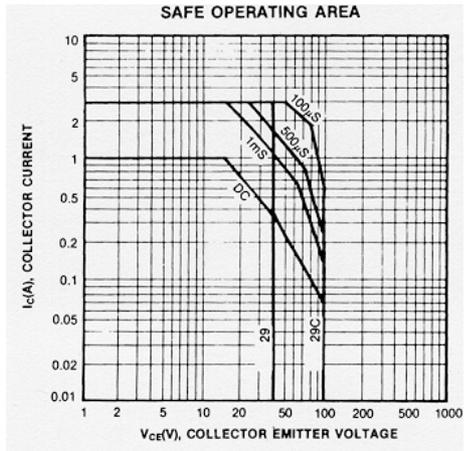
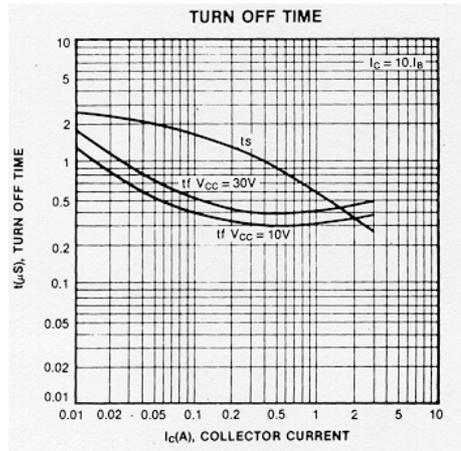
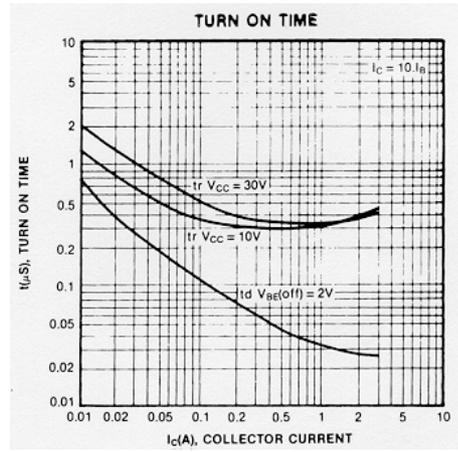
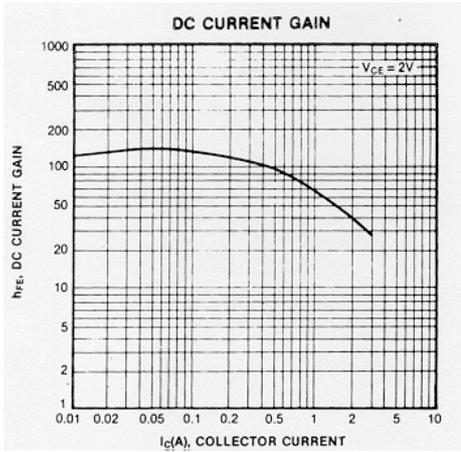
Absolute Maximum Ratings $T_C=25^\circ\text{C}$ unless otherwise noted

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	A
I_{CP}	Collector Current (Pulse)	3	A
I_B	Base Current	0.4	A
P_C	Collector Dissipation ($T_C=25^\circ\text{C}$)	15	W
P_C	Collector Dissipation ($T_a=25^\circ\text{C}$)	1.56	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	- 65 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
$V_{CEO(sus)}$	Collector-Emitter Sustaining Voltage				
	: MJD29	$I_C = 30\text{mA}, I_B = 0$	40		V
	: MJD29C		100		V
I_{CEO}	Collector Cut-off Current				
	: MJD29	$V_{CE} = 40\text{V}, I_B = 0$		50	μA
	: MJD29C	$V_{CE} = 60\text{V}, I_B = 0$		50	μA
I_{CES}	Collector Cut-off Current				
	: MJD29	$V_{CE} = 40\text{V}, V_{BE} = 0$		20	μA
	: MJD29C	$V_{CE} = 100\text{V}, V_{BE} = 0$		20	μA
I_{EBO}	Emitter Cut-off Current	$V_{BE} = 5\text{V}, I_C = 0$		1	mA
h_{FE}	DC Current Gain	$V_{CE} = 4\text{V}, I_C = 0.2\text{A}$	40		
		$V_{CE} = 4\text{V}, I_C = 1\text{A}$	15	75	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 1\text{A}, I_B = 125\text{mA}$		0.7	V
$V_{BE(on)}$	Base-Emitter ON Voltage	$V_{CE} = 4\text{A}, I_C = 1\text{A}$		1.3	V
f_T	Current Gain Bandwidth Product	$V_{CE} = 10\text{V}, I_C = 200\text{mA}$	3		MHz

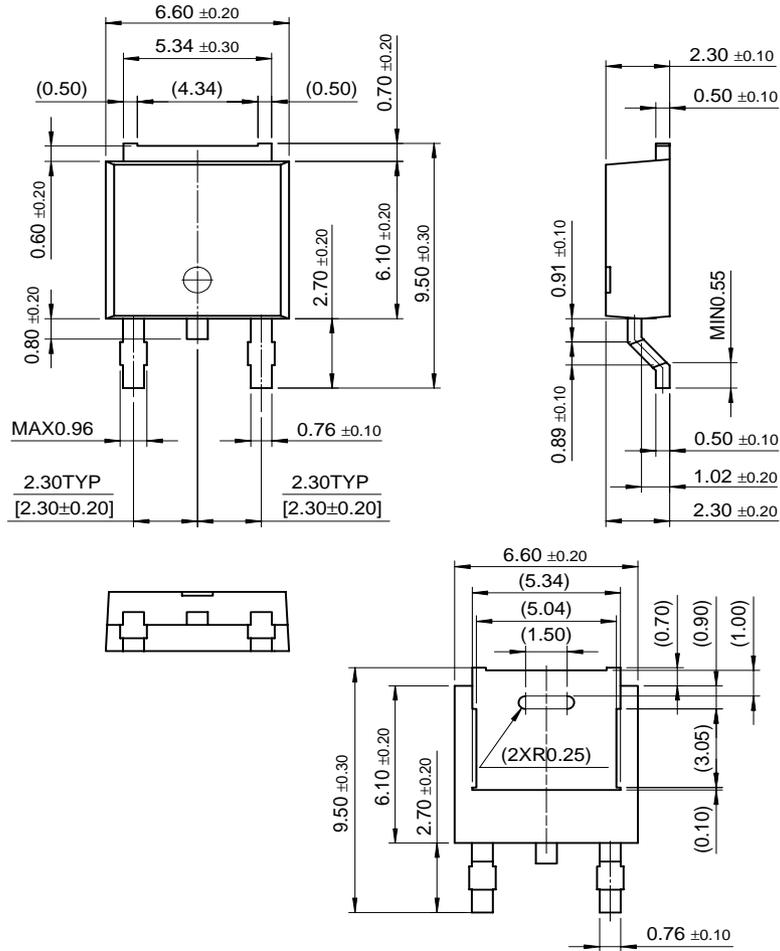
Typical Characteristics



Package Dimensions

MJD29/29C

D-PAK



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FACT™	QFET™	
FACT Quiet Series™	QS™	
FAST [®]	Quiet Series™	
FASTr™	SuperSOT™-3	
GTO™	SuperSOT™-6	
HiSeC™	SuperSOT™-8	

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