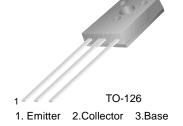


MJE800/801/802/803

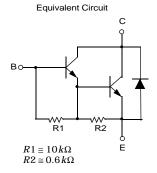
Monolithic Construction With Built-in Base-**Emitter Resistors**



NPN Epitaxial Silicon Darlington Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter		Value	Units
V _{CBO}	Collector- Base Voltage	: MJE800/801	60	V
		: MJE802/803	80	V
V _{CEO}	Collector-Emitter Voltage	: MJE800/801	60	V
		: MJE802/803	80	V
V _{EBO}	Emitter-Base Voltage		5	V
I _C	Collector Current		4	Α
I _B	Base Current		0.1	Α
P _C	Collector Dissipation (T _C =25°C)		40	W
TJ	Junction Temperature		150	°C
T _{STG}	Storage Temperature		- 55 ~ 150	°C



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

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Volta : MJE800/801 : MJE802/803		60 80		V
I _{CEO}	Collector Cut-off Current : MJE800/801 : MJE802/803	$V_{CE} = 60V, I_{B} = 0$ $V_{CE} = 80V, I_{B} = 0$		100 100	μΑ μΑ
I _{CBO}	Collector Cut-off Current	V_{CB} = Rated BV_{CEO} , I_E = 0 V_{CB} = Rated BV_{CEO} , I_E = 0 T_C = 100°C		100 500	μA μA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$		2	mA
h _{FE}	DC Current Gain : MJE800/802 : MJE801/803 : ALL DEVICE	$V_{CE} = 3V$, $I_C = 2A$	750 750 100		
V _{CE} (sat)	Collector-Emitter Saturation Volta : MJE800/802 : MJE801/803 : ALL DEVICE	$I_C = 1.5A, I_B = 30mA$ $I_C = 2A, I_B = 40mA$		2.5 2.8 3	V V V
V _{BE} (on)	Base-Emitter ON Voltage : MJE800/802 : MJE801/803 : ALL DEVICE	$V_{CE} = 3V$, $I_C = 2A$		2.5 2.5 3	V V V

Typical Characteristics

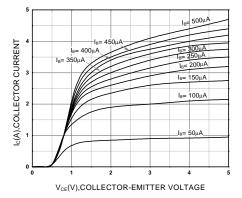


Figure 1. Static Characteristic

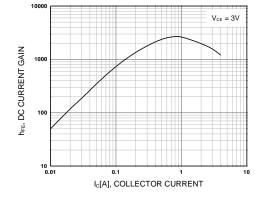


Figure 2. DC current Gain

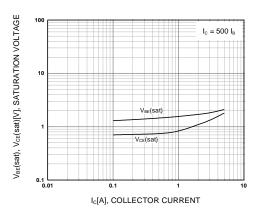


Figure 3. Collector-Emitter Saturation Voltage Base-Emitter Saturation Voltage

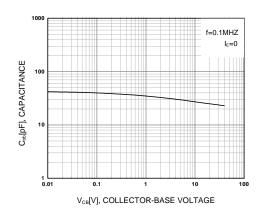


Figure 4. Collector Output Capacitance

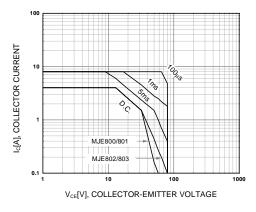


Figure 5. Safe Operating Area

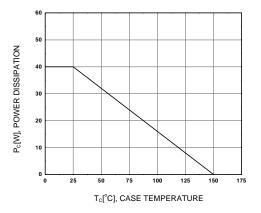
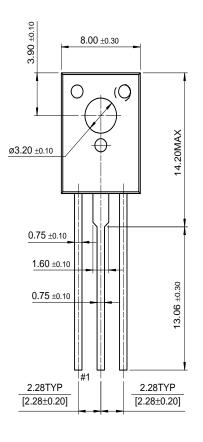


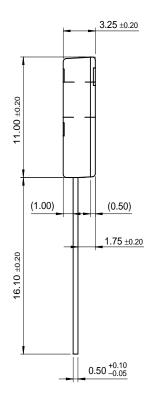
Figure 6. Power Derating

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Package Demensions

TO-126







Dimensions in Millimeters

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FACT™	OPTOPLANAR™	SuperSOT™-3	
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