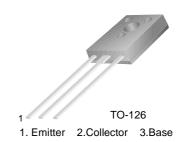


SEMICONDUCTOR IM

MJE800/801/802/803

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

- High DC Current Gain : $h_{FE}{=}$ 750 (Min.) @ $I_{C}{=}$ 1.5 and 2.0A DC Complement to MJE700/701/702/703



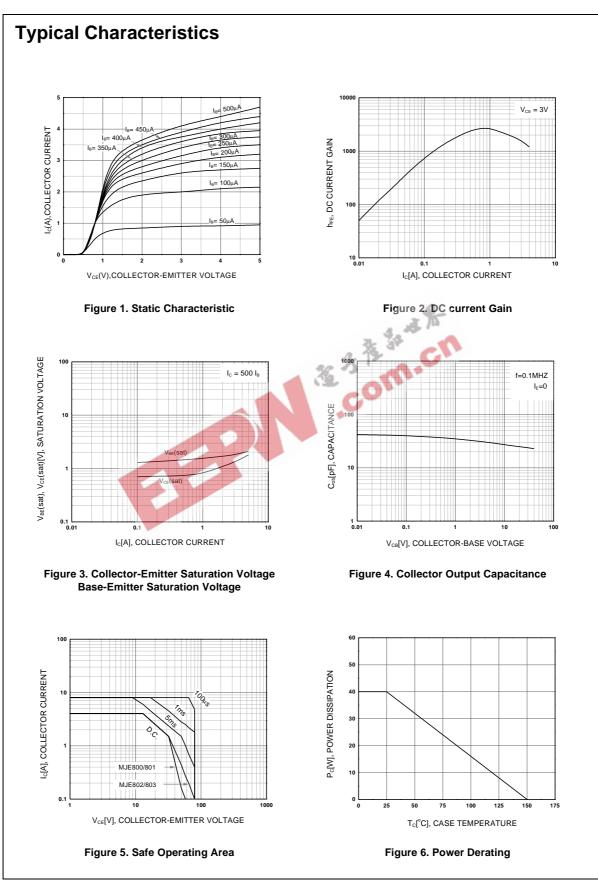
NPN Epitaxial Silicon Darlington Transistor

Absolute	Equivalent Circuit			
Symbol	Parameter	Value	Units	C
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	
Ι _C	Collector Current	4	А	
Ι _Β	Base Current	0.1	А	R1 R2
P _C	Collector Dissipation (T _C =25°C)	40	W	$R1 \cong 10 k\Omega$ E
TJ	Junction Temperature	150	°C	$R2 \cong 0.6 k\Omega$
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

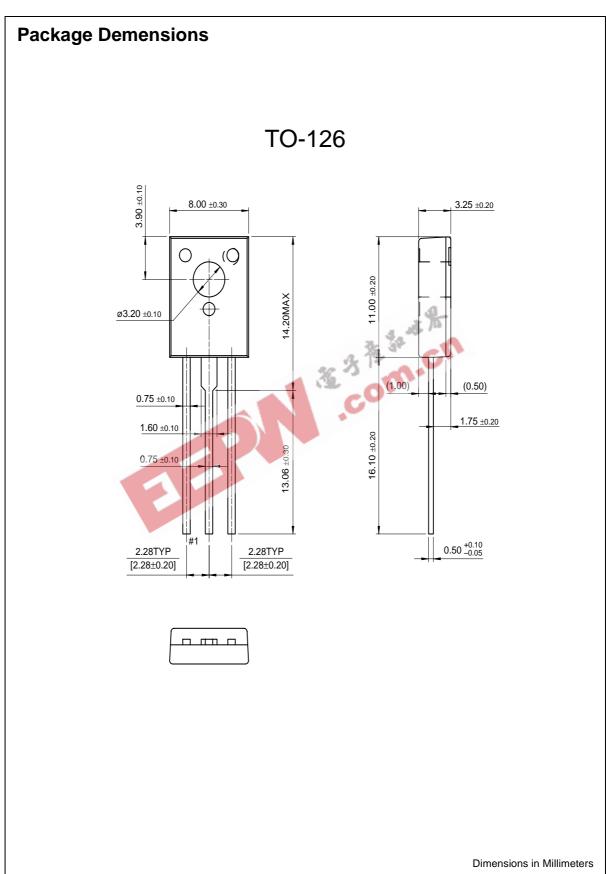
Symbol	Parame	ter	Test Condition	Min.	Max.	Unit
BV _{CEO}	Collector-Emitter Bre	akdown Voltage	I _C = 50mA, I _B = 0			
	:	MJE800/801		60		V
	:	MJE802/803		80		V
I _{CEO}	Collector Cut-off Curr	ent				
	:	MJE800/801	$V_{CE} = 60V, I_{B} = 0$		100	μA
	:	MJE802/803	$V_{CE} = 80V, I_B = 0$		100	μA
I _{CBO}	Collector Cut-off Curr	ent	V_{CB} = Rated BV _{CEO} , I _E = 0		100	μA
			$V_{CB} = Rated BV_{CEO}, I_E = 0$		500	μA
			T _C = 100°C			
I _{EBO}	Emitter Cut-off Curre	nt	$V_{BE} = 5V, I_{C} = 0$		2	mA
h _{FE}	DC Current Gain :	MJE800/802	V _{CE} = 3V, I _C = 1.5A	750		
	:	MJE801/803	$V_{CE} = 3V, I_{C} = 2A$	750		
	:	ALL DEVICES	$V_{CE} = 3V, I_{C} = 4A$	100		
V _{CE} (sat)	Collector-Emitter Sat	uration Voltage				
	:	MJE800/802	I _C = 1.5A, I _B = 30mA		2.5	V
	:	MJE801/803	I _C = 2A, I _B = 40mA		2.8	V
	:	ALL DEVICES	I _C = 4A, I _B = 40mA		3	V
V _{BE} (on)	Base-Emitter ON Vol	tage				
	:	MJE800/802	V _{CE} = 3V, I _C = 1.5A		2.5	V
	:	MJE801/803	$V_{CE} = 3V, I_{C} = 2A$		2.5	V
	:	ALL DEVICES	$V_{CE} = 3V, I_{C} = 4A$		3	V

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MJE800/801/802/803

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MJE800/801/802/803

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E ² CMOS™	MICROWIRE™	LILENT SWITCHER [®]
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