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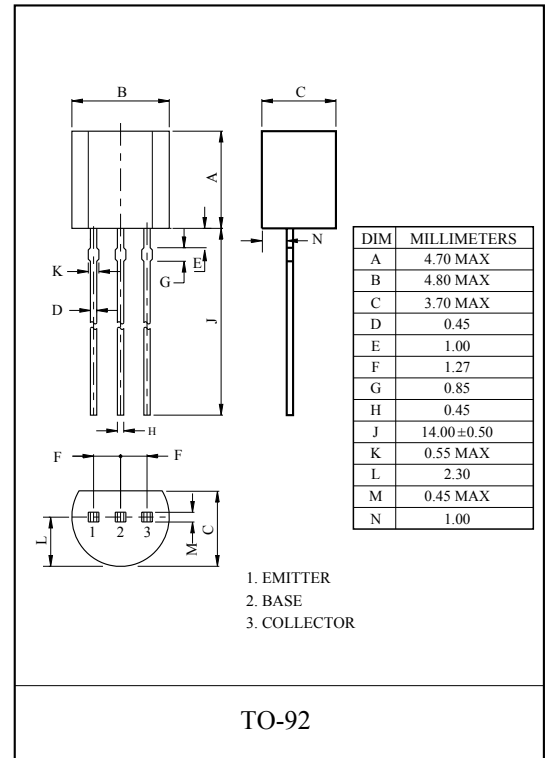
VOLTAGE REGULATOR, RELAY,  
RAMP DRIVER, INDUSTRIAL USE

### FEATURES

- High Voltage :  $V_{CEO}=60V(\text{Min.})$ .
- High Current :  $I_C(\text{Max.})=1A$ .
- High Transition Frequency :  $f_T=150\text{MHz}(\text{Typ.})$ .
- Wide Area of Safe Operation.
- Complementary to MPS751.

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	80	V
Collector-Emitter Voltage	$V_{CEO}$	60	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	DC	$I_C$	1
	Pulse	$I_{CP}$	2
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{sig}$	-55 ~ 150	°C



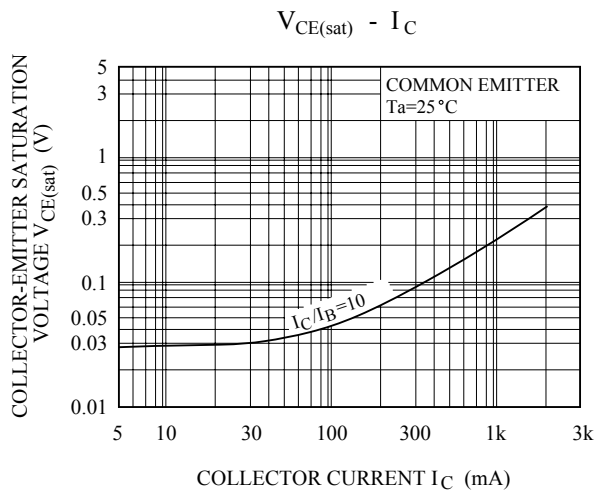
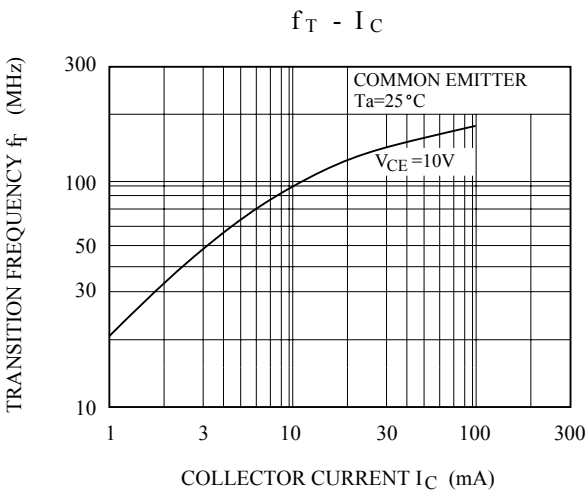
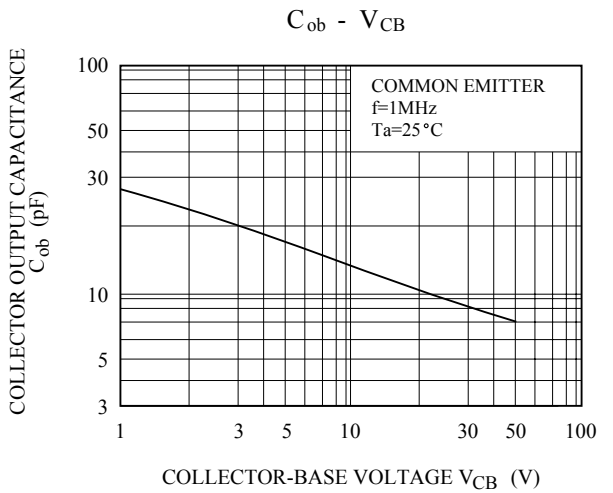
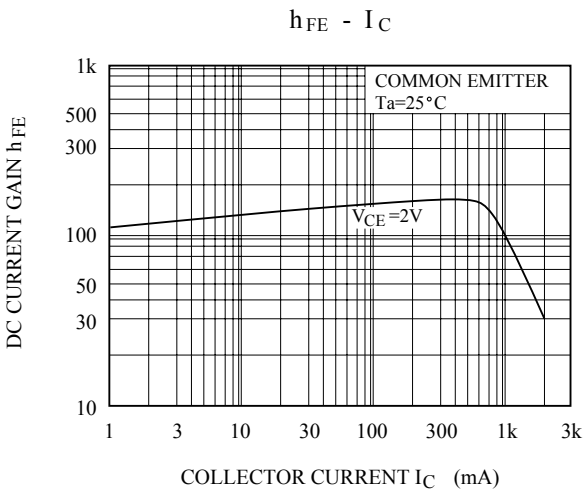
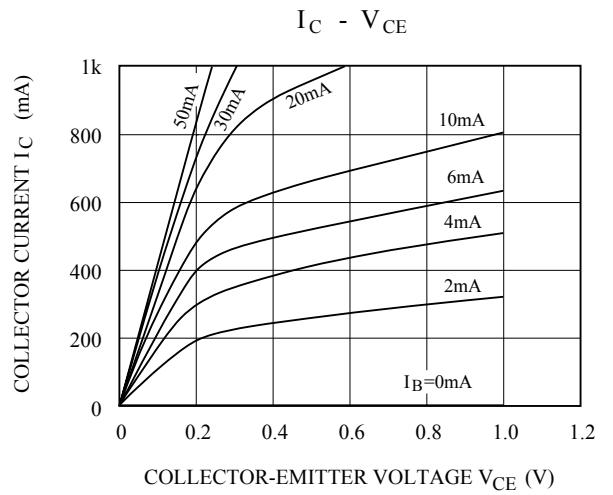
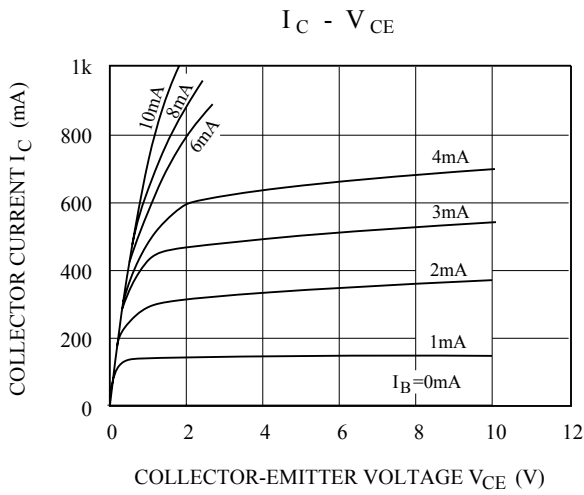
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=50V, I_E=0$	-	-	100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=4V, I_C=0$	-	-	100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2V, I_C=50\text{mA}$	100	-	320	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=1A$	30	-	-	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	60	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$	-	0.15	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$	-	0.85	1.2	V
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=50\text{mA}$	-	150	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1\text{MHz}$	-	12	-	pF

Note :  $h_{FE(1)}$  Classification Y:100~200 , GR:160~320

# MPS651

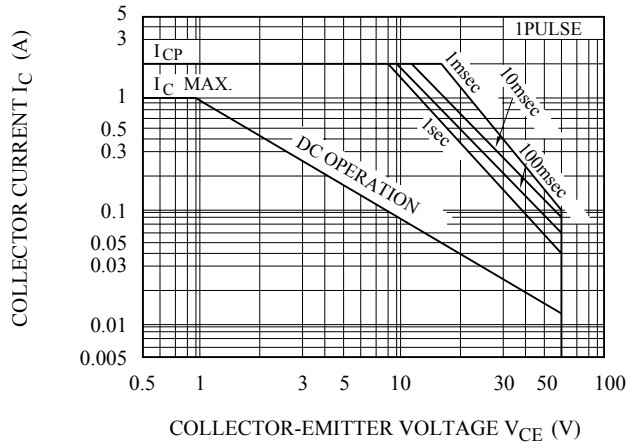
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# MPS651

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SAFE OPERATING AREA



Pc - Ta

