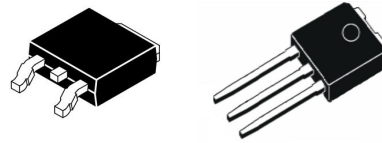


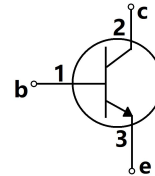
Features

- High DC Current Gain
- RoHS Product



Applications

- Power Driver applications



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Collector-Base voltage ($I_E=0$)	V_{CB0}	80	V
Collector-emitter voltage ($I_B=0$)	V_{CEO}	80	
Emitter-Base Voltage	V_{EBO}	5	
Collector Current (DC)	I_C	8	A
Collector Current (Pulse)	I_{CP}	16	
Base Current(DC)	I_B	1	
Collector Dissipation($T_c=25^{\circ}\text{C}$)	P_C	65	W
Collector Dissipation($T_a=25^{\circ}\text{C}$)	P_C	2	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~150	

*Pulse Test: Pulse Width=5.0 ms, Duty Cycle <10%

Electrical Characteristics ($T_c = 25^{\circ}\text{C}$ unless otherwise specified)

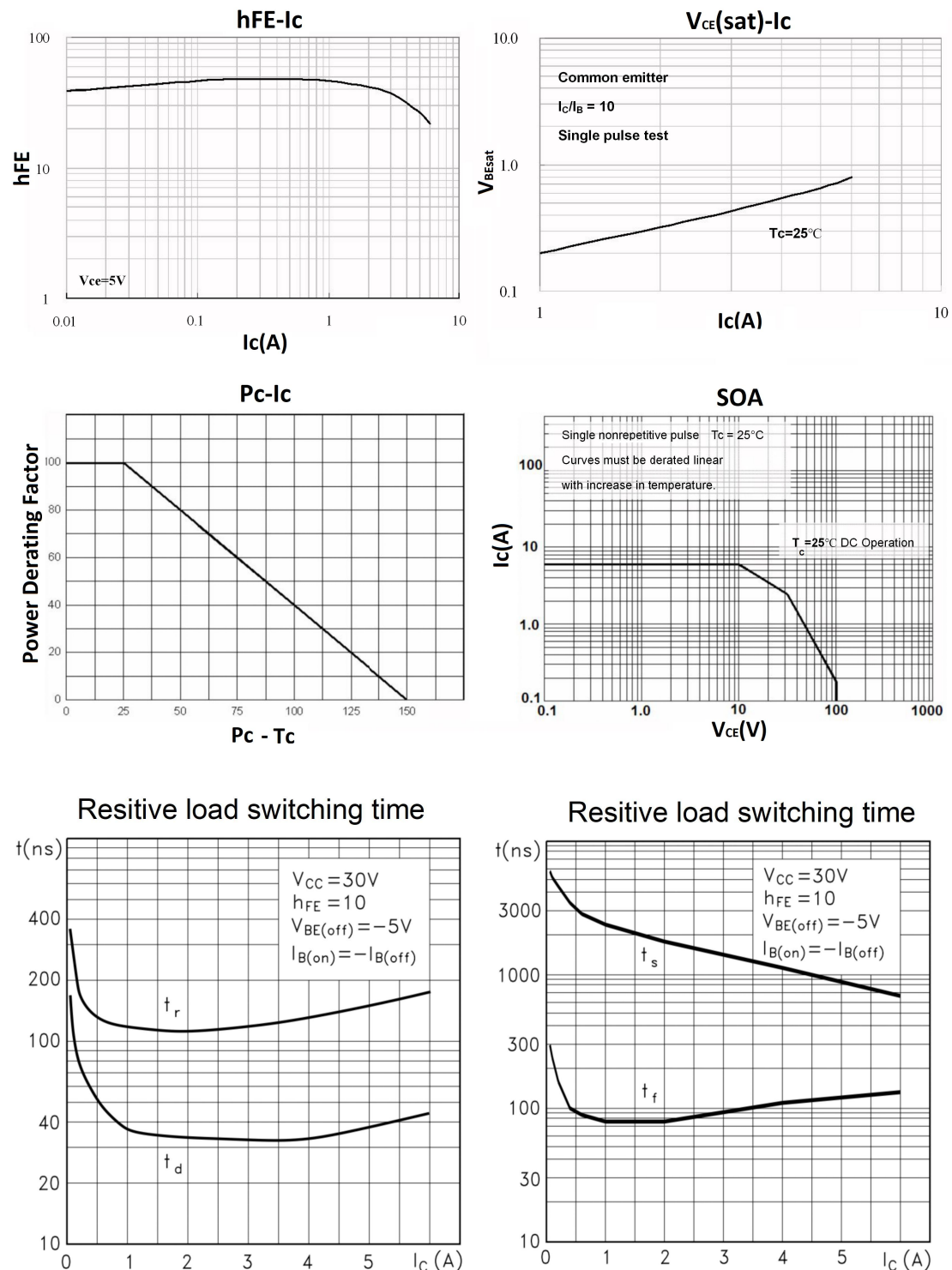
Parameter	Symbol	Test Condition		Min	Type	Max	Unit
Collector Sustain Voltage	$V_{(sus)CEO}$	$I_C=30\text{mA}, I_B=0\text{A}$		80	-	-	V
Collector Cutoff Current	I_{CES}	$V_{CE}=100\text{V}$		-	-	400	μA
Collector Sustain Current	I_{CBO}	$V_{CB}=60, I_E=0$		-	-	700	
Emitter Sustain Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$		-	-	1	mA
DC Current Gain	H_{FE}	$V_{CE}=4\text{V}, I_C=0.3\text{A}$	O	40	-	120	
			Y	120	-	210	
Collector-Emitter Saturation Voltage	$V_{CE(SET)}$	$I_C=6\text{A}, I_B=0.6\text{A}$		-	-	1.3	V
Base-Emitter Saturation Voltage	$V_{BE(SET)}$	$I_C=6\text{A}, I_B=0.6\text{A}$		-	-	2.0	
Maximum cut-off frequency	f_T	$V_{CE}=10\text{V}, I_C=0.5\text{A}, f=1\text{MHz}$		3.0	-	-	MHZ

Thermal Characteristic

Parameter	Symbol	Value	Unit
Thermal Resistance Junction Ambient	$R_{th(j-a)}$	62.5	$^{\circ}\text{C/W}$
Thermal Resistance Junction Case	$R_{th(j-C)}$	1.923	$^{\circ}\text{C/W}$

*Pulse Test: $PW \leq 300\text{ms}$, Duty Cycle $\leq 2\%$

Typical Performance Characteristic



Package Mechanical Data

