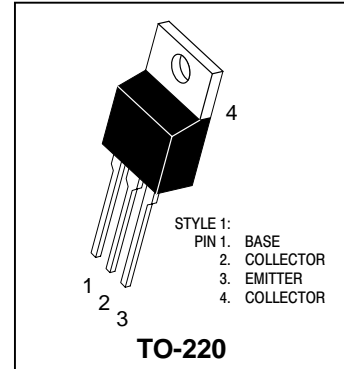


- **FEATURES:**    ■ HIGH SPEED SWITCHING    ■ HIGH VOLTAGE CAPABILITY    ■ WIDE SOA
- **APPLICATION:**    ■ FLUORESCENT LAMP    ■ ELECTRONIC BALLAST    ■ SWITCH POWER SUPPLY

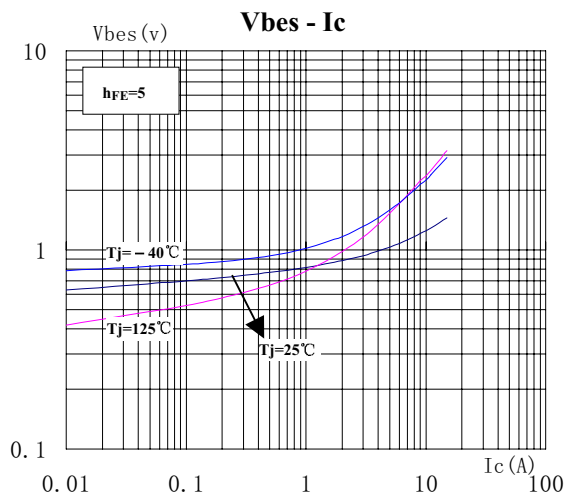
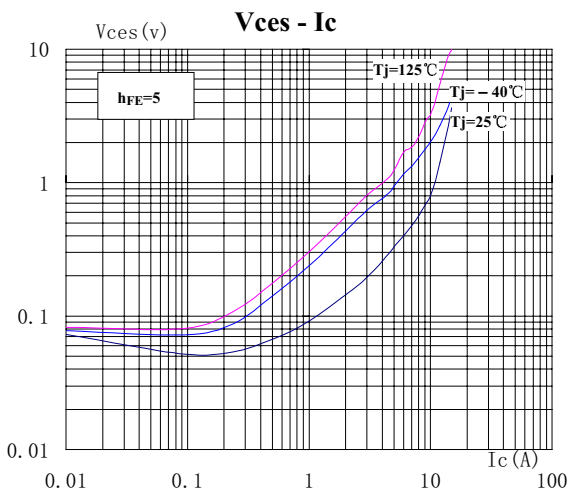
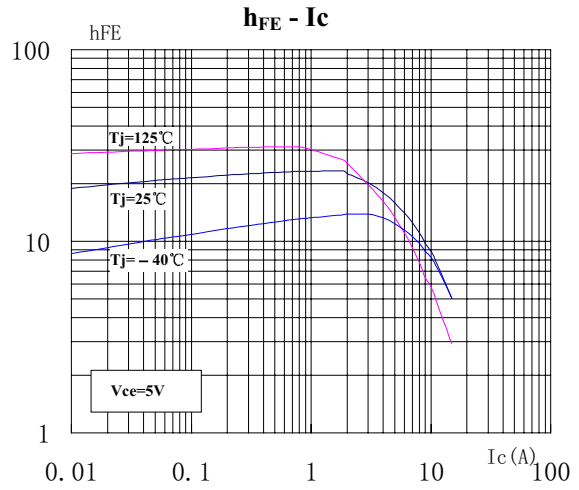
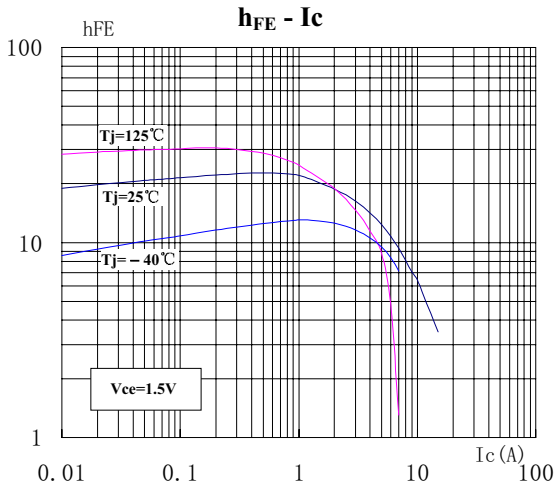
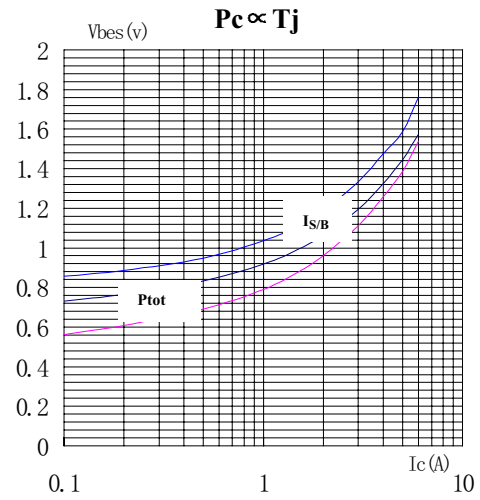
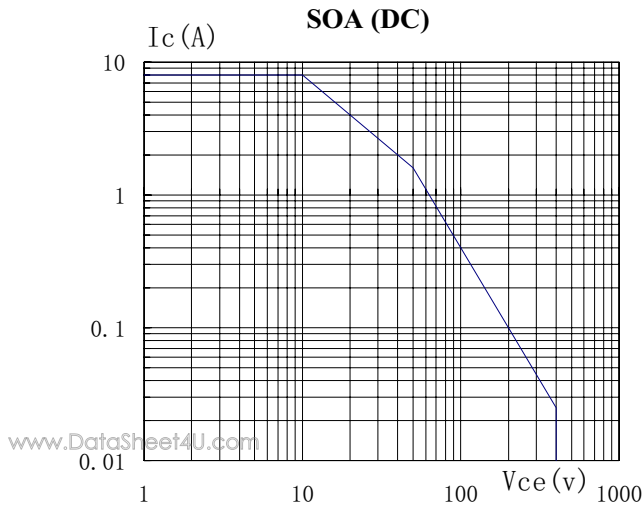
● **Absolute Maximum Ratings ( Tc=25°C )** **TO-220**

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	$V_{CBO}$	700	V
Collector-Emitter Voltage	$V_{CEO}$	400	V
Emitter-Base Voltage	$V_{EBO}$	9	V
Collector Current	$I_C$	8.0	A
Total Power Dissipation	$P_C$	80	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-65-150	°C



● **Electronic Characteristics ( Tc=25°C )**

CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector-Base Cutoff Current	$I_{CBO}$	$V_{CB}=700V$		100	$\mu A$
Collector-Emitter Cutoff Current	$I_{CEO}$	$V_{CE}=400V, I_B=0$		250	$\mu A$
Collector-Emitter Voltage	$V_{CEO}$	$I_C=10mA, I_B=0$	400		V
Emitter -Base Voltage	$V_{EBO}$	$I_E=1mA, I_C=0$	9		V
Collector-Emitter Saturation Voltage	$V_{ces}$	$I_C=2.0A, I_B=0.4A$		0.7	V
		$I_C=5.0A, I_B=1.0A$		1.5	
		$I_C=8.0A, I_B=2.0A$		3.0	
Base-Emitter Saturation Voltage	$V_{bes}$	$I_C=5.0A, I_B=1.0A$		1.5	V
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=10mA$	8		
		$V_{CE}=5V, I_C=2.0A$	10	40	
		$V_{CE}=5V, I_C=4.0A$	8		
Storage Time	$t_s$	$V_{CC}=250V,$ $I_C=5I_B$ $I_{B1} = -I_{B2}=1A$		3.5	$\mu S$
Falling Time	$t_f$			0.8	



TO-220 MECHANICAL DATA

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	4.47		4.67	e		2.54	
A1	2.52		2.82	e1	4.98		5.18
b	0.71		0.91	F	2.59		2.89
b1	1.17		1.37	L	13.40		13.80
c	0.31		0.53	L1	3.56		3.96
c1	1.17		1.37	$\phi$	3.79		3.89
D	10.01		10.31				
E	8.50		8.90				
E1	12.06		12.46				

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