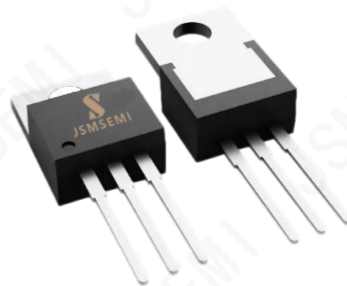


DESCRIPTION

- High Voltage: $V_{CEV} = 400V(\text{Min})$
- Low Saturation Voltage-: $V_{CE}(\text{sat}) = 1.0V(\text{Max.}) @ I_C = 5A$

APPLICATIONS

- Designed for use in horizontal deflection output stages of TV's and CRT's


ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	200	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	7	A
I_{CP}	Collector Current-Peak Repetitive	10	A
I_{CP}	Collector Current- Peak (10ms)	15	A
I_B	Base Current	4	A
P_C	Collector Power Dissipation@ $T_c = 25^\circ\text{C}$	60	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

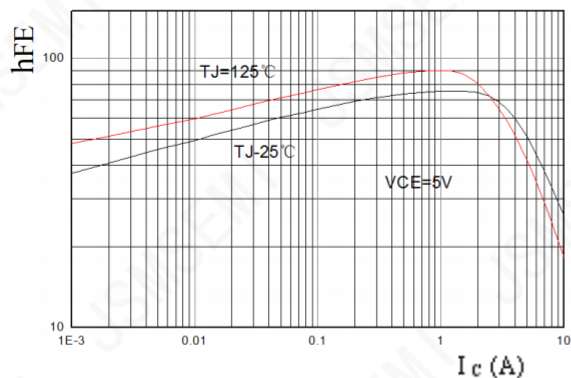
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.08	$^\circ\text{C/W}$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	70	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS**T_C=25°C unless otherwise specified**

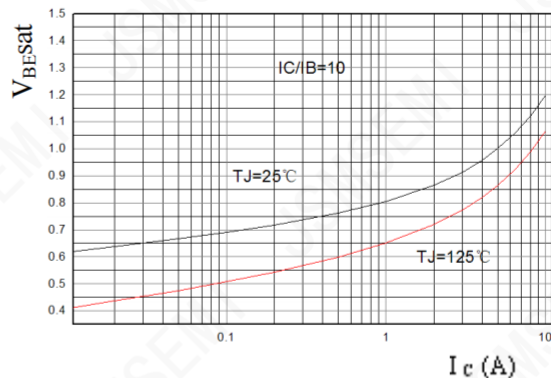
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.8A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.2	V
I _{CES}	Collector Cutoff Current	V _{CE} = 400V; V _{BE} = 0 V _{CE} =250V; V _{BE} = 0			5.0 0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	40		120	
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V	10			MHz
t _f	Fall Time	I _C = 5A; I _{B1} = -I _{B2} = 0.8A			0.4	μs

ELECTRICAL CHARACTERISTICS (curves)

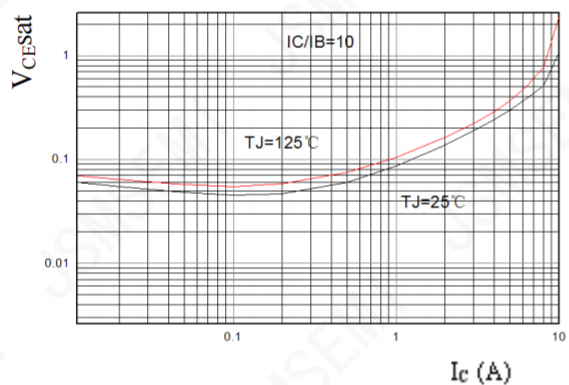
$h_{FE} - I_C$



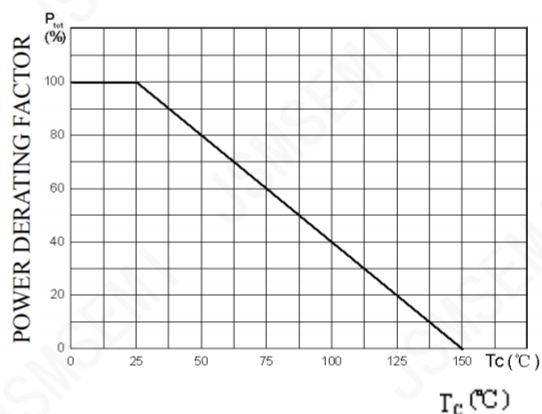
$V_{BE}(\text{sat}) - I_C$



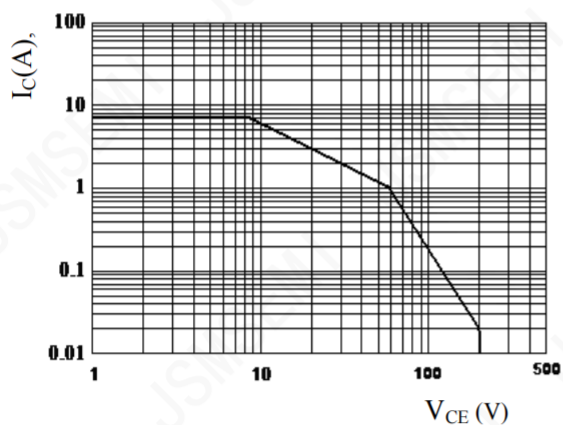
$V_{CE}(\text{sat}) - I_C$



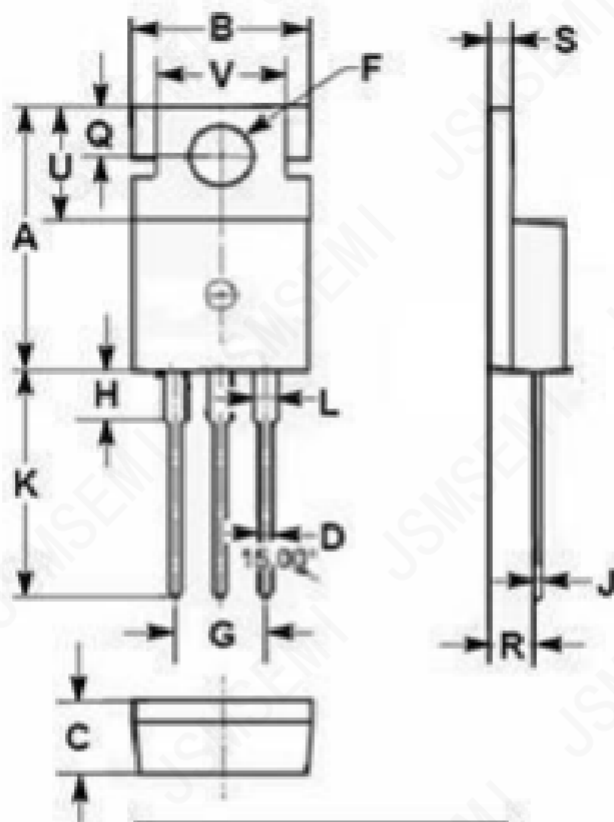
$P_C - T_C$



SOA



TO-220



DIM	mm	
	MIN	MAX
A	15.50	15.90
B	9.90	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	13.00	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86