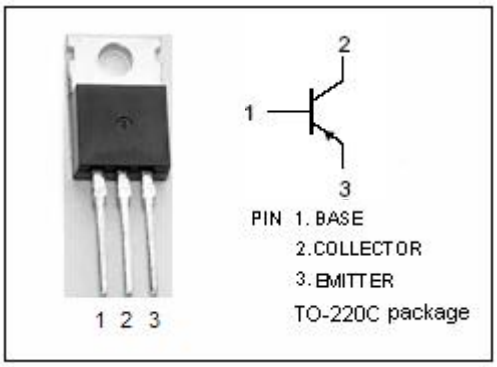
isc Silicon PNP Power Transistors D45H2A



DESCRIPTION

- Low Collector-Emitter Saturation Voltage
  : $V_{CE(sat)}$= 1.0V(Max)@ I_C = 8A
- Fast Switching Speeds
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

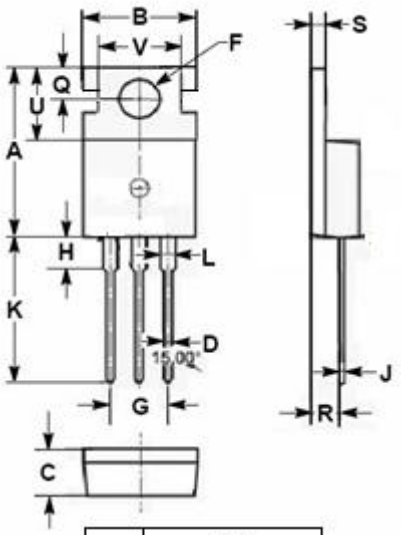
- This device is designed for power amplifier,regulator and Switching circuits where speed is important

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-8	A
I_{CM}	Collector Current-Peak	-16	A
P_C	Collector Power Dissipation @T_C=25℃	60	W
T_j	Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	2.1	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance,Junction to Ambient	62.5	℃/W



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.80	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	12.80	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

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{CE(sat)}$	Collector-EmitterSaturation Voltage	I_C= -8A ;I_B= -0.4 A			-1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -8A ;I_B= -0.8 A			-1.5	V
I_{CES}	Collector Cutoff Current	V_{CE}=Rated V_{CEO}; V_{BE}= 0			-10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-100	μA
h_{FE-1}	DC Current Gain	I_C= -8A ; V_{CE}= -5V	100			
h_{FE-2}	DC Current Gain	I_C= -10A ; V_{CE}= -5V	80			
h_{FE-3}	DC Current Gain	I_C= -12A ; V_{CE}= -5V	65			
f_T	Current-Gain—Bandwidth Product	I_C=-0.5A;V_{CE}=-10V;		25		MHz