

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SC3640

DESCRIPTION

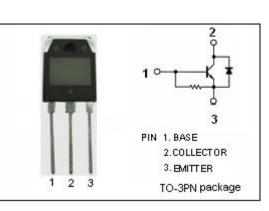
- High Collector-Emitter Breakdown Voltage : V_{(BR)CEO}= 800V(Min)
- Fast Speed
- High reliability
- Adoption of MBIT process
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

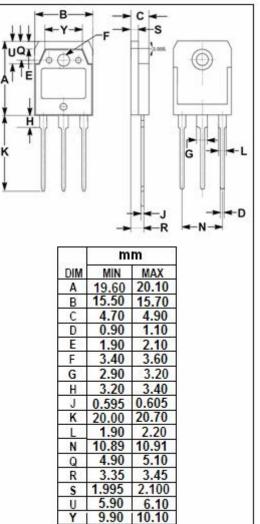
APPLICATIONS

Switching regulator and high voltage switching applications

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1200	V
V _{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	8	A
I _{CP}	Collector Current- Pulse	16	A
Pc	Collector Power Dissipation @ Tc=25℃	140	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 100mA ; I _B = 0	800			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I_{C} = 1mA ; I_{E} = 0	1200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 1200V ; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			1	mA
hFE-1	DC Current Gain	IC= 1.2A ; VCE= 5V	8			

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