

isc Silicon NPN Power Transistor

DESCRIPTION

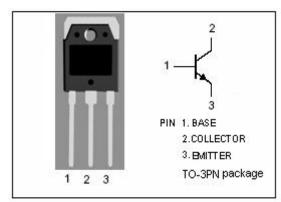
- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · High Reliability
- · Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

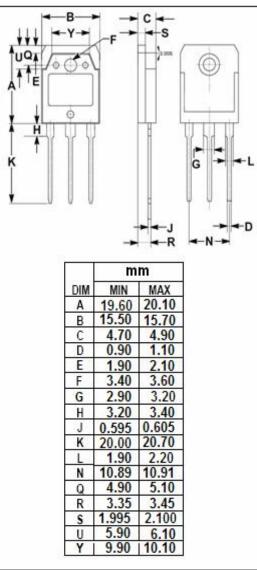
APPLICATIONS

 Designed for high definition CRT display horizontal deflection output applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current- Continuous	6	A
Іср	Collector Current-Pulse	16	A
Pc	Collector Power Dissipation @ T _C =25°C	120	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







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2SC3486

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 5mA; R _{BE} = ∞	800			V
V _(BR) CBO	Collector-Base Breakdown Voltage	Ic= 5mA; I _E = 0	1500			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA; I _C = 0	7			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1.2A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1.2A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V		3		MHz
t _{stg}	Storage Time	1 - 50 1 - 40 1 - 20 D - 40 0			3.0	μS
t _f	Fall Time	I_{C} = 5A, I_{B1} = 1A; I_{B2} = -2A; R_{L} = 40 Ω			0.3	μ \$

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