

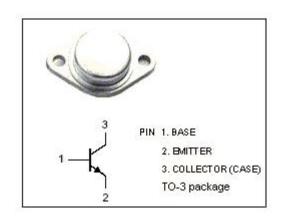
isc Silicon NPN Power Transistor

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 800V(Min.)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

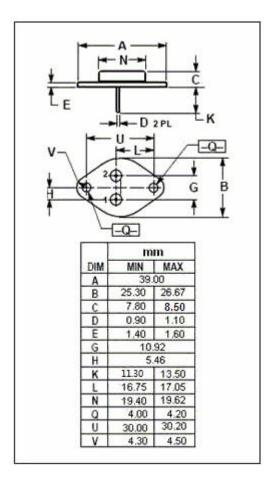
APPLICATIONS

- · High speed and high voltage switching applications
- Switching regulator applications
- High speed DC-DC converter applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	900	V	
Vceo	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	5	Α	
Ів	Base Current-Continuous	3	А	
Pc	Collector Power Dissipation @ Tc=25℃	100	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





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2SC2791

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	800			V			
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	900			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.0	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V			
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			0.1	mA			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	mA			
h _{FE-1}	DC Current Gain	I _C = 10mA; V _{CE} = 5V	10						
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	10						
Switching times									
t _r	Rise Time				1.0	μ S			
t _{stg}	Storage Time	I _C = 3A, I _{B1} = 0.3A; I _{B2} = -0.8A R _L =150 Ω; V _{CC} = 400V P _W =20 μs; Duty≤1%			3.5	μS			
t _f	Fall Time	== . 3, = 3, ,,			1.0	μ S			

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