

isc Silicon NPN Power Transistor

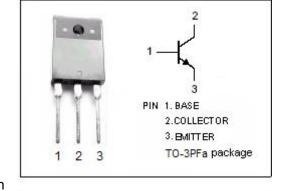
2SC3737

DESCRIPTION

- · High Collector-Base Breakdown Voltage-
 - : V_{(BR)CBO}= 800V(Min)
- · High Switching Speed
- · Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

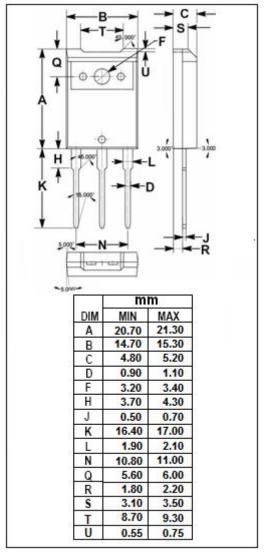


• Designed for high speed switching and horizontal deflection output applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	1200	V	
V _{CEO}	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base voltage 7		V	
lc	Collector Current-Continuous	5	Α	
Ісм	Collector Current-Peak	ollector Current-Peak 8		
I _B	Base Current-Continuous	3	А	
Pc	Collector Power Dissipation @ T _C =25 °C	100	W	
	Collector Power Dissipation @ T _a =25°C	3		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	800			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.5	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			2.0	V			
Ісво	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			100	μА			
ІЕВО	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА			
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 5V	6		20				
Switching times									
t _{on}	Turn-On Time				1.0	μ \$			
t _{stg}	Storage Time	I _C = 2A; I _{B1} = 0.4A, I _{B2} = -0.8A; V _{CC} = 250V			3.5	μ \$			
tf	Fall Time				0.3	μ s			

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