

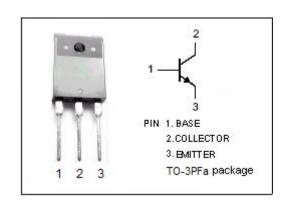
ISC Silicon NPN Power Transistor

DESCRIPTION

- · High Collector-Base Breakdown Voltage-
 - : V_{(BR)CBO}= 850V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

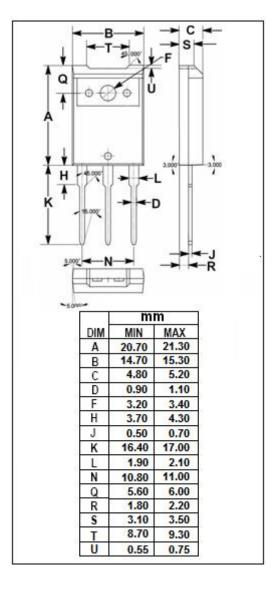
APPLICATIONS

· Designed for switching regulator and high voltage switching applications.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	850	V	
V _{CEO}	Collector-Emitter Voltage	650	V	
V _{EBO}	Emitter-Base voltage	7	V	
lc	Collector Current-Continuous	5	А	
Ісм	Collector Current-Peak	10	А	
l _B	Base Current-Continuous	3	А	
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	80	· W	
	Collector Power Dissipation @ T _a =25℃	3		
TJ	Junction Temperature 150		${\mathbb C}$	
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	





isc Silicon NPN Power Transistor

2SC3577

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
	TAKAMETER	JONETHONE			III/UX	J			
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 20mA ; I _B = 0	650			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V			
I _{CES}	Collector Cutoff Current	V _{CB} = 800V; V _{BE} = 0			50	μА			
ІЕВО	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			50	μА			
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	6						
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V; f= 1MHz		6		MHz			
Switching times									
t _{on}	Turn-On Time				1.0	μ \$			
t _{stg}	Storage Time	I _C = 3A; I _{B1} = 0.6A, I _{B2} = -1.2A; V _{CC} = 250V			2.5	μ \$			
tf	Fall Time				0.5	μS			

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