

isc Silicon PNP Darlingtion Power Transistor

2SB1284

DESCRIPTION

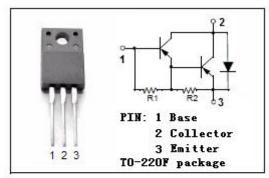
- · High DC Current Gain-
- : h_{FE}= 1500(Min.)@I_C= -5A
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= -1.5V(Max)@I_C= -5A
- Good Linearity of hFE
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

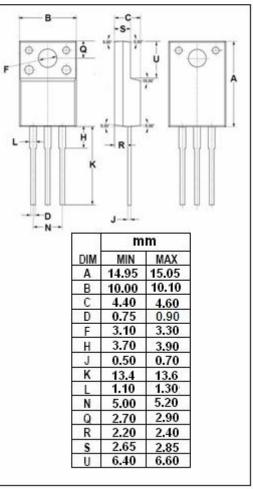
APPLICATIONS

- High power switching applications.
- · Hammer drive, pulse motor drive applications.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
V _{CEO}	Collector-Emitter Voltage	-100	V	
V _{EBO}	Emitter-Base Voltage	-7	V	
Ic	Collector Current-Continuous	-10	А	
Ісм	Collector Current-Peak	-15	А	
I _B	Base Current-Continuous	-0.8	А	
I _{BM}	Base Current-peak	-1.5	Α	
Pc	Collector Power Dissipation @ Tc=25℃	35	W	
TJ	Junction Temperature	150		
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-100			V		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -10mA			-1.5	V		
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -10mA			-2.0	V		
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-100	μА		
I _{CEO}	Collector Cutoff Current	V _{CE} = -100V; R _{BE} = ∞			-100	μА		
ІЕВО	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-5.0	mA		
h _{FE}	DC Current Gain	I _C = -5A; V _{CE} = -3V	1500		15000			
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		20		MHz		
Switching Times								
ton	Turn-on Time				1.0	μ S		
t _{stg}	Storage Time	I_{C} = -5.0A , I_{B1} = - I_{B2} = -10mA, V_{CC} \approx -40V; R_{L} = 6 Ω			4.0	μ S		
tf	Fall Time				2.0	μS		

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