

isc Silicon PNP Darlington Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -100V(Min)
- · High DC Current Gain-
 - : h_{FE}= 1000(Min)@I_C= -3A
- Complement to Type 2SD1785
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

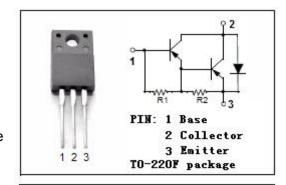
APPLICATIONS

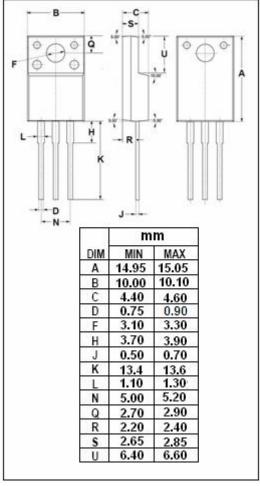


• Driver for solenoid, relay and motor and general purpose applications.

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ABSOLUTE N	MUMIXAN	RATINGS	T ₂ =25℃)

710000	ABOOLOTE MAXIMUM (ATMOS(Ta-25 C)							
SYMBOL	PARAMETER	VALUE	UNIT					
V _{CBO}	Collector-Base Voltage	-100	V					
V _{CEO}	Collector-Emitter Voltage	-100	V					
V_{EBO}	Emitter-Base Voltage	-6	V					
lc	Collector Current-Continuous	-6	Α					
I _{CP}	Collector Current-Pulse	-10	Α					
lΒ	Base Current-Continuous	-1	Α					
Pc	Collector Power Dissipation @ T _C =25℃	30	W					
TJ	Junction Temperature	150	°C					
T _{stg}	Storage Temperature Range	-55~150	°C					







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2SB1258

ELECTRICAL CHARACTERISTICS

T_C=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	-100			V			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-1.5	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-2.0	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E =0			-10	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C =0			-5	mA			
h _{FE}	DC Current Gain	Ic= -3A; V _{CE} = -2V	1000						
Сов	Output Capacitance	I _E =0; V _{CB} = -10V; f _{test} = 1.0MHz		100		pF			
f _T	Current-Gain—Bandwidth Product	I _E = 0.2A; V _{CE} = -12V		100		MHz			
Switching Times									
ton	Turn-on Time			0.6		μS			
t _{stg}	Storage Time	I_{C} = -3A; I_{B1} = - I_{B2} = -6mA, V_{CC} = -30V, R_{L} = 10 Ω		1.6		μS			
t _f	Fall Time			0.5		μ S			

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