

ISC Silicon PNP Power Transistor

MJB2955

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO} = -60V(Min)$
- · High DC Current Gain-
 - : h_{FE}= 20-100@I_C= -4A
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



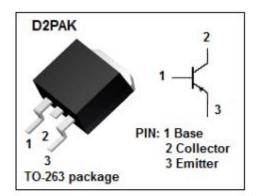
• Designed for use in general-purpose amplifier and switching applications.

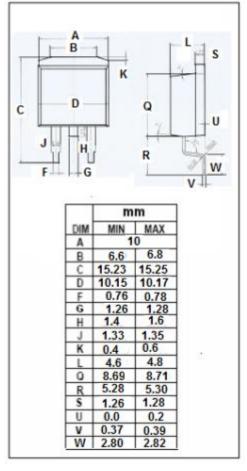


ABSOLUTE MAXIMUM RATINGS(Ta-25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	-70	V				
V _{CEO}	Collector-Emitter Voltage	-60	V				
V _{EBO}	Emitter-Base Voltage	-5	V				
Ic	Collector Current-Continuous	-10	А				
I _B	Base Current-Continuous	-6	А				
Pc	Collector Power Dissipation @ T _C =25℃	75	W				
TJ	Junction Temperature	150	$^{\circ}$				
T _{stg}	Storage Temperature Range	-55~150	°C				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.67	°C/W







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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 = -50mA; I _B = 0	-60			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.1	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -3.3A			-8.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4A ; V _{CE} = -4V			-1.8	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0			-0.7	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -70V; I _E = 0 V _{CB} = -70V; I _E = 0;T _C = 150°C			-1.0 -10	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5.0	mA
h _{FE-1}	DC Current Gain	I _C = -4A ; V _{CE} = -4V	20		100	
h _{FE-2}	DC Current Gain	I _C = -10A ; V _{CE} = -4V	5			
f⊤	Current Gain-Bandwidth Product	I _C = -0.5A; V _{CE} = -10V; f= 500kHz	2.0			MHz

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