

INCHANGE SEMICONDUCTOR

isc Silicon PNP Power Transistor

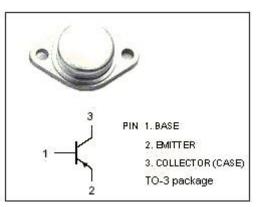
2SA745A

DESCRIPTION

- High Power Dissipation-: PC= 70W(Max.)@Tc=25℃
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= -120V(Min.)
- Complement to Type 2SC1403A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

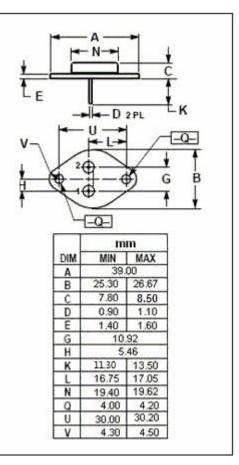
APPLICATIONS

• Designed for general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-120	V	
V _{CEO}	Collector-Emitter Voltage -12		V	
V _{EBO}	Emitter-Base Voltage	-6	V	
lc	Collector Current-Continuous	-8	А	
I _B	Base Current-Continuous	-3	А	
Pc	Collector Power Dissipation 70		W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-65~150	°C	



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ELECTRICAL CHARACTERISTICS

Tj=25 $^{\circ}$ C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA ;I _B = 0	-120			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A			-1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-1.0	mA
h _{FE}	DC Current Gain	Ic= -3A ; Vce= -4V	30			
fT	Current-Gain—Bandwidth Product	I _E = 0.5A ; V _{CE} = -12V		15		MHz

Switching times

tr	Rise Time		1.2	μs
tstg	Storage Time	I _C = -3A ,R _L = 4 Ω , V _{CC} = -12V I _{B1} = -0.2A; I _{B2} = 0.1A	2.0	μs
t _f	Fall Time		0.55	μs

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