

isc Silicon PNP Power Transistor

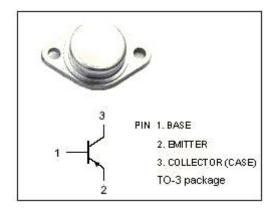
2SA747

DESCRIPTION

- · High Power Dissipation-
 - : P_C= 100W(Max.)@T_C=25℃
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -120V(Min.)
- Complement to Type 2SC1116
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

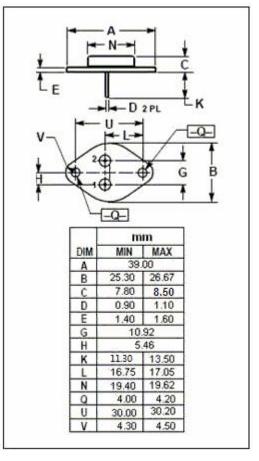


• Designed for general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-120	V	
Vceo	Collector-Emitter Voltage	-120	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
lc	Collector Current-Continuous	-10	Α	
lΒ	Base Current-Continuous	-4	Α	
Pc	Collector Power Dissipation @Tc=25°C	100	W	
Tj	Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-65~150	$^{\circ}$ C	





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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

1)-23 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 = -5A; I _B = -0.5A			-2.0	V			
Ісво	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	I _C = -3A; V _{CE} = -4V	30						
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -12V		15		MHz			
Switching times									
t _r	Rise Time			1.2		μ S			
t _{stg}	Storage Time	I_{C} = -3A , R_{L} = 4 Ω , V_{CC} = -12V I_{B1} = -0.2A; I_{B2} = 50mA		3.3		μ S			
t _f	Fall Time			0.8		μs			

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