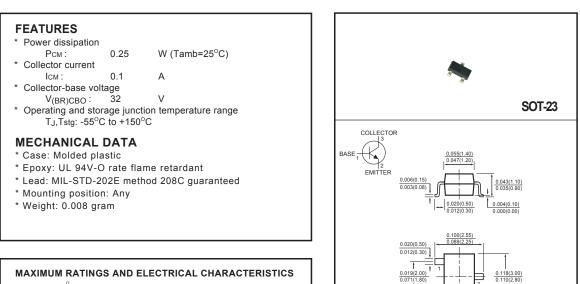


SOT-23 BIPOLAR TRANSISTORS TRANSISTOR(NPN)



Ratings at 25° C ambient temperature unless otherwise specified. Single phase , half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



ELECTRICAL CHARACTERISTICS (@ TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS	
Collector-base breakdown voltage (I_C= 10 μ A, I_E=0)	V _{(BR)CBO}	32	-	-	V	
Collector-emitter breakdown voltage (I_C = 1mA, I_B =0)	V _{(BR)CEO}	32	-	-	V	
Emitter-base breakdown voltage (I _E = 10μ A, I _C =0)	V(BR)EBO	5	-	-	V	
Collector cut-off current (V _{CB} = 32V, I_E =0)	Ісво	-	-	0.02	μA	
Collector cut-off current (V _{EB} = 4V, I_C =0)	I _{EBO}	-	-	0.02	μΑ	
DC current gain (V _{CE} = 5V, I _C = 10 μ A)		40	-	-	-	
DC current gain (V _{CE} = 5V, I _C = 2mA)	h _{FE}	250	-	460	-	
DC current gain (V _{CE} = 5V, I_C = 50mA)		100	-	-	-	
Collector-emitter saturation voltage (I _C = 10mA, I _B = 0.25mA)	V _{CE(sat)}	-	-	0.35	V	
Collector-emitter saturation voltage (I _C = 50mA, I _B = 1.25mA)	CL(Sal)	-	-	0.55	V	
Base-emitter saturation voltage (I _C = 10mA, I _B = 0.25mA)	N	-	-	0.85	V	
Base-emitter saturation voltage (I _C = 50mA, I _B = 1.25mA)	VBE(sat)	-	-	1.05	V	
Base-emitter voltage (V _{CE} = 5V, I _C = 2μ A)	VBE	0.55	-	0.75	V	
Transition frequency (V _{CE} = 5V, I _C = 10mA, f=100MHz)	fτ	100	-	-	MHz	
Output capacitance (V _{CB} = 10V, I_E = 0, f=1MHz)	Cob	-	-	5	pF	
Marking		AC				

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