

Features

- · Epitaxial Planar Die Construction
- · Ideal for Medium Power Amplification and Switching
- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

• Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-300	V
Collector-Emitter Voltage	V _{CEO}	-300	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-100	mA
Power Dissipation	P_D	200	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

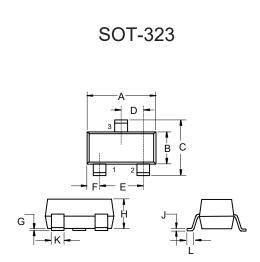
Marking: K3R

Internal Structure



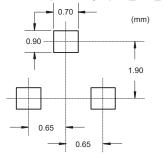
1.BASE 2.EMITTER 3.COLLECTOR

PNP Small Signal Transistors



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

QseecqrcbĀQmjbcpĀN_bĀJ_wmsr





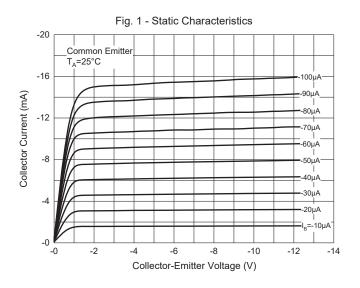
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

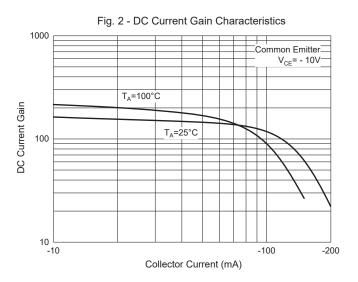
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-300			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage*	V _{(BR)CEO}	-300			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-100μA, I _C =0
Collector Cutoff Current	I _{CBO}			-0.25	μA	V _{CB} =-200V, I _E =0
Emitter Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-3V, I_C =0
	h _{FE(1)}	25				V _{CE} =-10V, I _C =-1mA
DC Current Gain*	h _{FE(2)}	40				V _{CE} =-10V, I _C =-10mA
	h _{FE(3)}	25				V _{CE} =-10V, I _C =-30mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-20mA, I _B =-2mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-0.9	V	I _C =-20mA, I _B =-2mA
Transition Frequency	f _T	50			MHz	V _{CE} =-20V, I _C =-10mA, f=100MHz
Collector-Base Capacitance	C _{cb}			6	pF	V _{CB} =-20V, I _E =0,f=1MHz

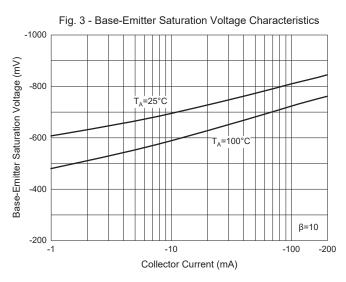
^{*.}Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

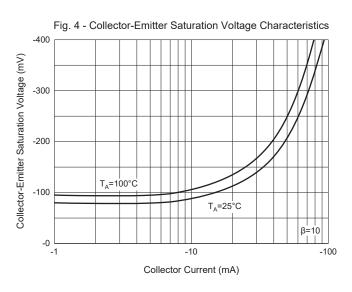


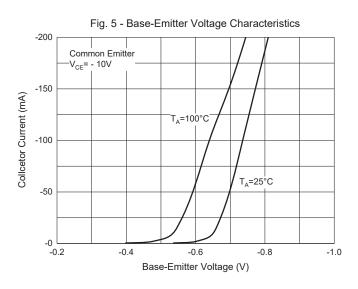
Curve Characteristics

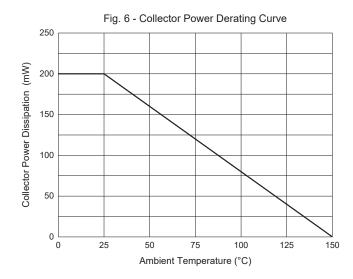














Ordering Information

Device	Packing		
MMSTA92HE3-TP	Tape&Reel: 3Kpcs/Reel		

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