

Features

- 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)

Dual PNP Small Signal Transistor

Maximum Ratings

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-160	V
Collector-Emitter Voltage	V _{CEO}	-150	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-600	mA
Power Dissipation	P _D	200	mW

Thermal characteristics

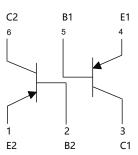
Parameter	Symbol	Rating	Unit
Operating Junction Temperature Range	T _{OPR}	-55~+150	°C
Storage Temperature Range	T _{STR}	-55~+150	°C
Thermal Resistance from Junction to Ambient	Rth _(j-a)	625	°C/W

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

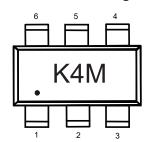
SOT-363

DIMENSIONS						
DIM INCHES		HES	M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOIL	
Α	0.006	0.014	0.15	0.35		
В	0.045	0.053	1.15	1.35		
С	0.079	0.096	2.00	2.45		
D	0.026		0.65		TYP.	
G	0.047	0.055	1.20	1.40		
Н	0.071	0.087	1.80	2.20		
J		0.004		0.10		
K	0.031	0.043	0.80	1.10		
L	0.010	0.018	0.26	0.46		
М	0.003	0.006	80.0	0.15		

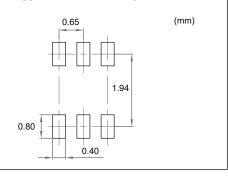
Internal Structure



Device Marking



Suggested Solder Pad Layout



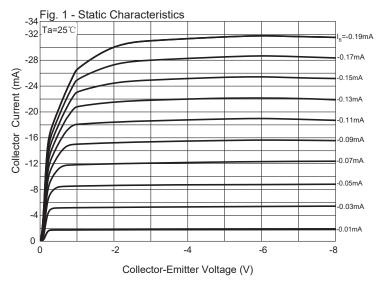


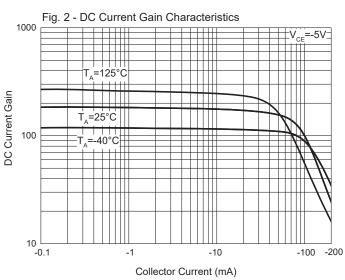
Electrical Characteristics @ 25°C Unless Otherwise Specified

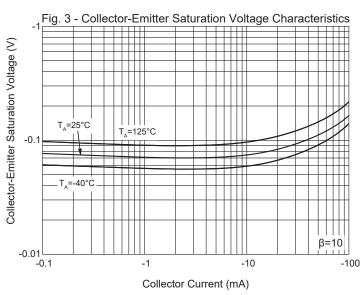
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-160			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-150			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-10μA, I _C =0
Collector Cutoff Current	I _{CBO}			-50	nA	V _{CB} =-120V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-50	nA	V_{EB} =-3V, I_C =0
DC Current Gain	h _{FE1}	50				V _{CE} =-5V, I _C =-1mA
	h _{FE2}	100		300		V_{CE} =-5V, I_{C} =-10mA
	h _{FE3}	50				V _{CE} =-5V, I _C =-50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.2	V	I _C =-10mA, I _B =-1mA
				-0.5	V	I _C =-50mA, I _B =-5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.0	V	I _C =-10mA, I _B =-1mA
				-1.0	V	I _C =-50mA, I _B =-5mA
Output Capacitance	C _{ob}			6	pF	V _{CB} =-10V, I _E =0, f=1MHz
Transition Frequency	f _T	100			MHz	V _{CE} =-10V, I _C =-10mA, f=100MHz

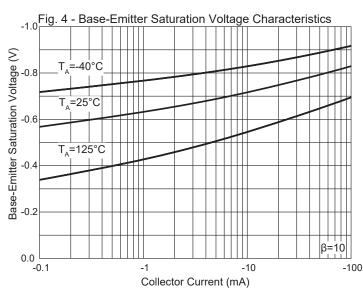


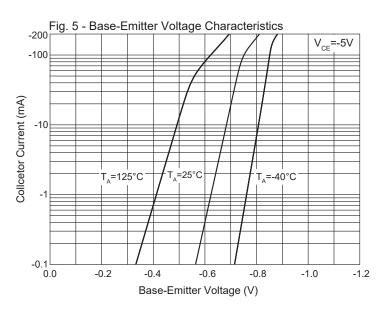
Curve Characteristics

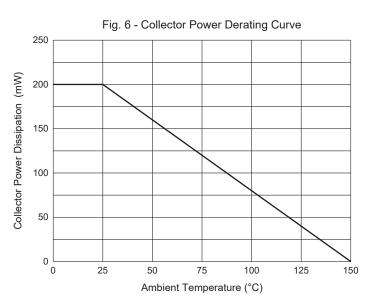














Ordering Information

Device	Packing		
MMDT5401HE3-TP	Tape&Reel: 3Kpcs/Reel		

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