

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)

Maximum Ratings @ 25°C Unless Otherwise Specified

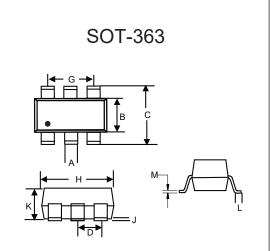
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	200	mA
Power Dissipation	P _D	200	mW

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

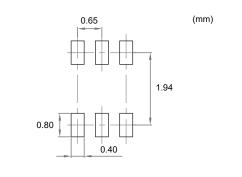
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Dual NPN Small Signal Transistors

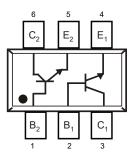


	DIMENSIONS					
DIM	INCHES		M	М	NOTE	
DIN	MIN	MAX	MIN MAX		NOTE	
Α	0.006	0.014	0.15	0.35		
В	0.045	0.053	1.15	1.35		
С	0.079	0.096	2.00	2.45		
D	0.026		0.65		TYP.	
G	0.047	0.055	1.20	1.40		
Н	0.071	0.087	1.80	2.20		
J		0.004		0.10		
K	0.031	0.043	0.80	1.10		
L	0.010	0.018	0.26	0.46		
М	0.003	0.006	0.08	0.15		

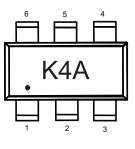
Suggested Solder Pad Layout



Internal Structure



Device Marking



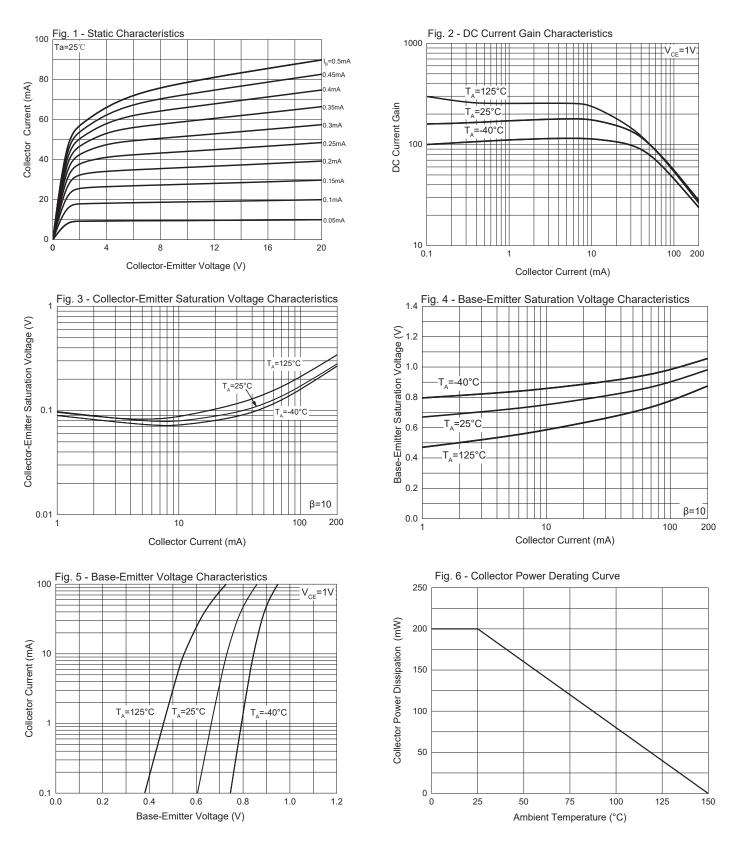


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Мах	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60			V	I _C =10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	40			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =10μA, I _C =0
Base Cutoff Current	I _{BL}			50	nA	V _{CE} =30V, V _{EB(OFF)} =3V
Collector Cutoff Current	I _{CEX}			50	nA	V _{CE} =30V, V _{EB(OFF)} =3V
	h _{FE(1)}	40				V_{CE} =1V, I _C =0.1mA
	h _{FE(2)}	70				V _{CE} =1V, I _C =1mA
DC Current Gain	h _{FE(3)}	100		300		V _{CE} =1V, I _C =10mA
	h _{FE(4)}	60				V _{CE} =1V, I _C =50mA
	h _{FE(5)}	30				V _{CE} =1V, I _C =100mA
Collector Emitter Seturation Voltage	V			0.2	V	I _C =10mA, I _B =1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =50mA, I _B =5mA
Page Emitter Seturation Voltage	V	0.65		0.85	V	I _C =10mA, I _B =1mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			0.95	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	300			MHz	V _{CE} =20V, I _C =10mA, f=100MHz
Output Capacitance	C _{obo}			4.0	pF	V _{CB} =5V, I _E =0, f=1MHz
Delay Time	t _d			35	ns	V _{CC} =3V, I _C =10mA
Rise Time	t _r			35	ns	V _{BE} =0.5V, I _{B1} =1mA
Storage Time	t _s			200	ns	V _{CC} =3V, I _C =10mA
Fall Time	t _f			50	ns	I _{B1} =I _{B2} =1mA



Curve Characteristics





Ordering Information

Device	Packing			
DMMT3904HE3-TP	Tape&Reel: 3Kpcs/Reel			

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