

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# MMS8550-L MMS8550-H

## **Features**

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 0.3Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C
- Marking: 2TY
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1 Halogen free available upon request by adding suffix "-HF"

## **Electrical Characteristics @ 25°C Unless Otherwise Specified**

Symbol	Parameter	Min	Max	Units	
OFF CHARAC	OFF CHARACTERISTICS				
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage 40 (ಓ=100µAdc, l <sub>=</sub> =0)				
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (b=0.1mAdc, l <sub>B</sub> =0)	25	1	Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (	5.0	1	Vdc	
Сво	Collector Cutoff Current (V <sub>CB</sub> =40Vdc, $\not\models$ =0)		0.1	μAdc	
PEO	Collector Cutoff Current (V <sub>CE</sub> =20Vdc, <sub>b</sub> =0)		0.1	μAdc	
l <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =3.0Vdc, ├=0)		0.1	μAdc	

### **ON CHARACTERISTICS**

h <sub>FE(1)</sub>	DC Current Gain	120 350		
	$(\xi=50\text{mAdc}, V_{CE}=1.0\text{Vdc})$			
h <sub>FE(2)</sub>	DC Current Gain	50		
	(b=500mAdc, V <sub>CE</sub> =1.0Vdc)			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage		0.6	Vdc
	( $b=500$ mAdc, $b=50$ mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.2	Vdc
` ′	(b=500mAdc, l <sub>B</sub> =50mAdc)			
$V_{EB}$	Base- Emitter Voltage		1.4	Vdc
	(I <sub>E</sub> =100mAdc)			

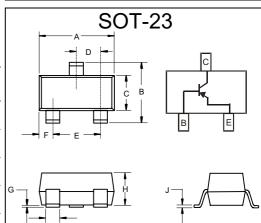
## **SMALL-SIGNAL CHARACTERISTICS**

f⊤	Transistor Frequency	150	 MHz
	( $l_c$ =20mAdc, $V_{ce}$ =6.0Vdc, f=30MHz)		

### **CLASSIFICATION OF HEED**

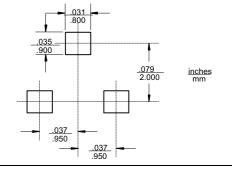
Rank	L	Н
Range	120-200	200-350

## **PNP Silicon Plastic-Encapsulate Transistor**



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
Κ	.015	.020	.37	.51	

## Suggested Solder Pad Layout





#### **Micro Commercial Components**

## Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3 Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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