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REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1885	Α	RELEASED	EO	02/03/06	НО	2/6/06	JWM	2/6/06

RoHS Compliant

Description: Silicon TO-126, PNP Power Transistor for use in power amplifier and switching excellent safe area limits.

SPC-F005.DWG

Absolute Maximum Ratings:

- Collector-Base Voltage, $V_{CBO} = 80V$
- Collector-Emitter Voltage, V_{CEO} = 80V
- Emitter-Base Voltage, $V_{\rm EBO}=5V$ Continuous Collector Current, $I_{\rm C}=4A$
- Base Current = 1A
- Total Device Dissipation ($T_C = +25^{\circ}C$), $P_D = 40W$

Derate above 25°C = 320mW/°C

- Operating Junction Temperature Range, $T_J = -65^{\circ}$ to $+150^{\circ}$ C
- Storage Temperature Range, $T_{stq} = -65^{\circ}$ to $+150^{\circ}$ C

Electrical Characteristics: $(T_A = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions		Max	Unit
OFF Characteristics					
Collector—Emitter Breakdown Voltage	V _{(BR)CEO}	I_{C} = 100mA, I_{B} = 0, (Note 1)	80	_	V
Collector Cut-Off Current	I_{CEO}	V_{CE} = 80V, I_{E} = 0		1	mA
Collector Cut-Off Current	I _{CEX}	$V_{CE} = 80V$, $V_{EB(off)} = 1.5V$	_	0.1	mA
	I _{CBO}	V_{CB} = 80V, $I_{\mathbf{E}}$ = 0	_	0.1	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 5V, I_{C} = 0$	-	1	mA
ON Characteristics			•	•	
DC Current Gain (Note 1)	h _{FE}	$V_{CE} = 2V$, $I_{C} = 1.5A$	20	80	_
		$V_{CE} = 2V, I_{C} = 4A$	7	_	_
		$I_{\rm C} = 1.5$ A, $I_{\rm B} = .15$ mA	_	0.6	V
(Note 1)	oz(odt)	$I_{C} = 4A$, $I_{B} = 1A$	-	1.4	V
Base—Emitter On Voltage (Note 1)	V _{BE(on)}	$I_C = 1.5A$, $V_{CE} = 2V$		1.2	V
Small-Signal Characteristics					
Current Gain—Bandwidth Product	f _T	V_{CE} = 10V, I_{C} = 1A, f = 1MHz	2	_	MHz

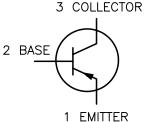
PNP

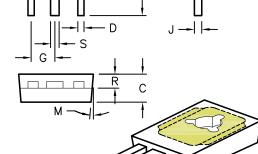
Dim	Min	Max		
A	10.80	11.05		
В	7.49	7.75		
С	2.41	2.67		
D	0.51	0.66		
F	2.92	3.18		
G	2.31	2.46		
Н	1.27	2.41		
J	0.38	0.64		
K	15.11	16.64		
M	3° T	YP		
Q	3.76	4.01		
R	1.14	1.40		
S	0.64	0.89		
U	3.68	3.94		
V	1.02	_		

STYLE 1

PIN 1. EMITTER

- 2. COLLECTOR
- 3. BASE





Note 1. Pulse Test: Pulse Width $\leq 300 \mu s$, Duty Cycle $\leq 2\%$.

ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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APPROVED BY:	DATE:
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DRAWING TITLE:

Transistor Ripolar Plastic TO-126 PNP

06		Trulisision,	bipolar, Flasiic,	10-1	20, ГМГ		
:	SIZE	DWG. NO.		ELEC [*]	TRONIC FIL	E	REV
6	Α	2N	5195	01H1379.DWG			Α
:	SCALE	: NTS	U.O.M.: MILLIMETERS		SHEET:	1 0	F 1