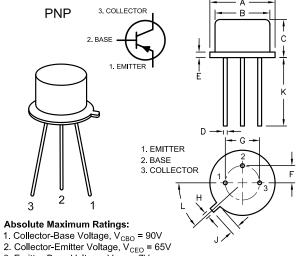


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SPC-	_F00	75 F)WC

N,	REVISIONS				DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398							
	DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
	1447	Α	RELEASED		6/11/02	JWM	2/20/04	JC	2/20/04			
	1885 B UPDATED TO ROHS COMPLIANCE		ΕO	02/03/06	НО	2/6/06	НО	2/6/06				

В	С	D	Е	F	G	Н	J	K	L
0 7.7	74 6.09	0.40	-	2.41	4.82	0.71	0.73	12.70	42°
8.8	50 6.60	0.53	0.88	2.66	5.33	0.86	1.02	-	48°
	0 7.	7.74 6.09	50 7.74 6.09 0.40	50 7.74 6.09 0.40 -	50 7.74 6.09 0.40 - 2.41	50 7.74 6.09 0.40 - 2.41 4.82	50 7.74 6.09 0.40 - 2.41 4.82 0.71	50 7.74 6.09 0.40 - 2.41 4.82 0.71 0.73	50 7.74 6.09 0.40 - 2.41 4.82 0.71 0.73 12.70



Absolute Maximum Ratings:

- 3. Emitter-Base Voltage, $V_{EBO} = 7V$
- 4. Continuous Collector Current, I_C = 1A
- 5. Total Device Dissipation ($T_A = +25^{\circ}C$), $P_D = 1W$ Derate above 25°C = 5.72mW/°C
- 6. Total Device Dissipation ($T_C = +25^{\circ}C$), $P_D = 5W$ Derate above 25°C = 28.6mW/°C
- 7. Operating Junction Temperature Range, $T_J = -65^{\circ}$ to +200°C
- 8. Storage Temperature Range, T $_{\rm stg}$ = -65° to +200°C 9. Thermal Resistance, Junction-to-Case, R $_{\rm thJC}$: 35°C
- 10. Lead temperature (During Soldering, $\frac{1}{16}$ " from case, 60sec max), T_L: 300°C

N,									
	DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	1447	Α	RELEASED	HYO	6/11/02	JWM	2/20/04	JC	2/20/04
	1885	В	UPDATED TO ROHS COMPLIANCE	EO	02/03/06	но	2/6/06	но	2/6/06
	<i>M</i> -								



This is a silicon PNP transistor in a TO-39 type case designed primarily for amplifier and switching applications. This device features high breakdown voltage, low leakage current, low capacity, and beta useful over an extremely wide current range.

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
OFF Characteristics						
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 100mA, I _B = 0	65	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	$I_E = 10 \mu A, I_C = 0$	7	-	-	٧
Collector Cut-Off Current	I _{CBO}	V _{CB} = 90V, I _E = 0	-	-	100	μA
Emitter Cut-Off Current	I _{EBO}	V _{BE} = 7V, I _C = 0	-	-	10	μΑ
ON Characteristics, Note 1						
		$V_{CE} = 10V, I_{C} = 100\mu A$	20	-	-	-
DC Current Gain	h _{FE}	$V_{CE} = 2V, I_{C} = 150mA$	20	-	200	-
		V _{CE} = 10V, I _C = 500mA	20	-	-	-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 150mA, I _B = 15mA	-	-	0.65	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = 150mA, I _B = 15mA	-	-	1.4	V
Small-Signal Characteristics						
Small-Signal Current Gain	h _{fe}	$V_{CE} = 10V, I_{C} = 50mA, f = 20MHz$	1	-	-	-
Switching Characteristics						
Storage Time	ts	I _{B2} =15mA	-	-	600	nS
Turn-On Time	ton	I _{B1} =I _{B2}	-	-	110	nS
Fall Time	t _f	I _{B2} =15mA	_	-	100	nS

									1
	DISCLAIMER:	TOLERANCES:	DRAWN BY:	DATE:	DRAWIN	NG TITLE:			
	ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED	UNLESS OTHERWISE	HISHAM ODISH	6/11/02		Transistor,	, Bipolar, Metal,	TO-39, PNP	
	HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE	SPECIFIED,	CHECKED BY:	DATE:	SIZE	DWG. NO.		ELECTRONIC FILE	REV
	CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT	DIMENSIONS ARE	JEFF MCVICKER	2/20/04		2N-	4036 l	35C0711.DWG	ΙвΙ
	FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.	PURPOSES ONLY.	APPROVED BY:	DATE:			, , , ,		
			JOHN COLE	2/20/04	SCALE:	: NTS	U.O.M.: Millimeters	SHEET: 1 (DF 1