mult [®] comp	ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.			REVISIONS	DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398					
		DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		1447	Α	Released	JWM	1/6/03	но	3/26/04	JC	4/13/04
	SPC-F005.DWG	1885	В	UPDATED TO ROHS COMPLIANCE	EO	02/03/06	но	2/6/06	HO	2/6/06

Description: A silicon NPN transistor in a TO-3 type case designed for for use in industrial power amplifier and switching circuit applications. RoHS

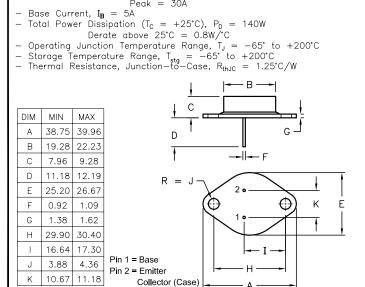
- Features:
- High Collector-Emitter Sustaining Voltage High DC Current Gain _
- _
- Low collector-Emitter Saturation Voltage - Fast switching times

- _ Collector Current, I_{C}

Continuous = 20A Peak = 30A

- _
- _

- _
- _





3 Collector 2 Base 1 Emitter

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

Parameter		Test Conditions	Min	Max	Uni
OFF Characteristics					
Collector-Emitter Sustaining Voltage	V _{CEO(sus)}	I_{C} = 200mA, I_{B} = 0, Note 1	90	-	V
Collector Cut-Off Current	I _{CEX}	$V_{CE} = 140V$, $V_{BE(off)} = 1.5V$	-	50	mA
		$V_{CE} = 100V, V_{BE(off)} = 1.5V, T_{C} = +150^{\circ}C$	-	10	mA
Emitter Cut-Off Current	I _{EBO}	$V_{BE} = 5V, I_{C} = 0$	-	5	mA
ON Characteristics (Note 1)		•			
DC Current Gain	h _{FE}	$V_{CE} = 5V, I_C = 12A$	20	100	-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 20A, I _B = 5A	-	2.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	$I_{C} = 20A, I_{B} = 5A$	-	3.3	V
Switching Characteristics					
Rise Time	tr		-	.5	us
Storage Time	ts	$V_{CC} = 30V, I_C = 12A, I_{B1} = I_{B2} = 1.2A$	-	1.5	μs
Fall Time	t _f		-	.5	μs

	TOLERANCES:	DRAWN BY:	DATE:	DRAW	ING TITLE:					
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Jeff McVicker	1/6/03	Transistor, Bipolar, Metal, TO—3, NPN						
		CHECKED BY:	DATE:	SIZE	DWG. NO.	TRONIC FILE	REV			
		Hisham Odish	3/26/04	A	2N;	15038 3!		35C0719.DWG		
		APPROVED BY:	DATE:						·	
		John cole	4/13/04	SCALE: NTS		U.O.M.: Millimeters		SHEET: 1 OF	· 1	



Compliant

