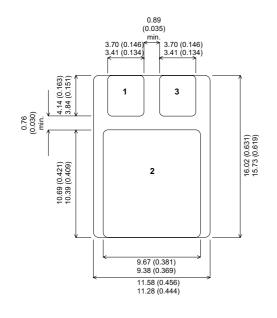


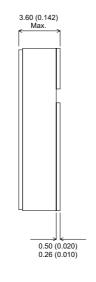


MECHANICAL DATA

Dimensions in mm (inches)

NPN BIPOLAR TRANSISTOR IN A CERAMIC SURFACE MOUNT **PACKAGE FOR HIGH REL APPLICATIONS**





FEATURES

- HIGH VOLTAGE
- FAST SWITCHING
- CERAMIC SURFACE MOUNT PACKAGE
- SCREENING OPTIONS AVAILABLE

SMD₁ **Underside View**

1 = Base

2 = Collector

3 = Emitter

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

$V_{\sf CBO}$	Collector – Base Voltage	250V
V_{CEO}	Collector – Emitter Voltage (I _B = 0)	200V
V_{EBO}	Emitter – Base Voltage (I _B = 0)	6V
l _B	Base Current	0.6A
$I_{\mathbb{C}}$	Collector Current	3A
T_J , T_STG	Operating and Storage Junction Temperature Range	−55 to +150°C
$R_{ hetaJC}$	Thermal Resistance Junction to Case	4.16°C/W
P_{D}	Power Dissipation	30W

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.

E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise stated)

	Parameter	Test Cor	nditions	Min.	Тур.	Max.	Unit	
V _{CEO(sus)}	Collector – Emitter Sustaining Voltage	$I_C = 10mA$	I _B = 0	200			V	
V _{CER(sus)}	Collector – Emitter Sustaining Voltage	$I_C = 10mA$	$R_{EB} = 100\Omega$	250			_ v	
I _{CES}	Collector – Emitter Cut-off Current	V _{CE} = 200V	I _B = 0			1.0	μΑ	
	Collector – Emitter Cut-on Current	V _{CE} = 175	T _C = 150°C			100	μΑ	
I _{EBO}	Emitter Base Cut-off Current	$V_{EB} = 6V$	I _E = 0			10	μΑ	
V _{CE(sat)}	Collector – Emitter Saturation Voltage	I _C = 3.0A	$I_{B} = 0.3A$			0.4	V	
V _{BE(sat)}	Base – Emitter On Voltage	I _C = 3.0A	$I_{B} = 0.3A$			1.2		
h _{FE}	DC Current Gain	$I_C = 0.5 \text{mA}$	V _{CE} = 2V	40				
		I _C = 1.0A	V _{CE} = 5V	40	1	120	 	
		I _C = 3.0A	V _{CE} = 5V	15				
C _{obo}	Output Capacitance	$V_{CB} = 5.0V$	f = 1MHz			125	pF	
[h _{fe}]	Small Signal Current Gain	$V_{CE} = 5.0V$	$I_{\rm C} = 0.5 A$	2.0				
		f = 10MHz		2.0				
t _{on}	Turn on time	I _C = 1.0A	V _{CC} = 100V			0.25	μsec	
		$I_{B1} = -I_{B2} = 30$)mA			0.25	μισου	
t _{off}	Turn off time	I _C = 1.0A	V _{CC} = 100V			1.5	μА	
	Turn off time	$I_{B1} = -I_{B2} = 30$)mA					

E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk

file:////rohitnsharma/E/seme_la	b/0516/2N56	64SMD05.html							
Part number search for devices beginning "2N5664SMD05" Datasheets are downloaded as Acrobat PDF files.									
Bipolar Products									
PRODUCT	Polarity	Package	V_{CEO}	$I_{C(cont)}$	$\mathbf{H}_{\mathrm{FE}(\mathrm{min})}$	H _{FE(max)}	$@V_{CE}/I_{C}$	$\mathbf{F_T}$	P_{D}
2N5664SMD05	NPN	SMD0.5 (TO276AA)	200V	3A	40	120	5/1	20MHz	30W
2N5664SMD05-JQR-B	NPN	SMD0.5 (TO276AA)	200V	3A	40	120	5/1	20MHz	30W
Searched through 3084 records and found 2 products matching your criteria.									
<u>Top of Page</u> If you are unable to find a suitable part, please <u>contact us</u> .									