



BSS84W

P-Channel Enhancement Mode MOSFET

Voltage -50 V **Current** 130mA

Features

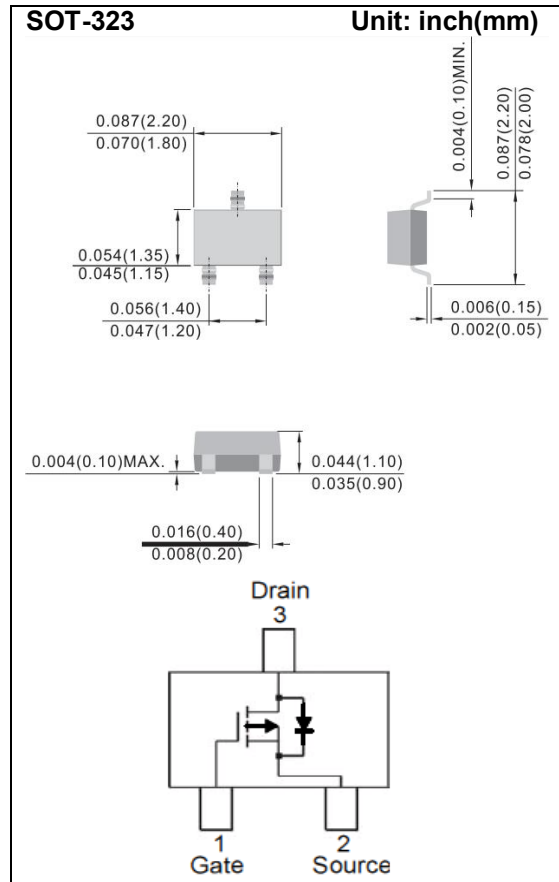
- Low On-Resistance
- Low Gate Threshold Voltage
- Fast Switching
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. (Halogen Free)

Mechanical Data

- Case: SOT-323 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00018 ounces, 0.005 grams
- Marking: 84W

Applications

- Switching Power supplies
- Hand-Held Computers, PDAs



Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Drain-Source Voltage	V_{DSS}	-50	V
Drain-Gate Voltage ^(Note 1)	V_{DGR}	-50	V
Gate-Source Voltage	V_{GSS}	+20	V
Drain Current	I_D	130	mA
Power Dissipation ^(Note 2)	P_D	200	mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$
Typical Thermal resistance - Junction to Ambient ^(Note 2)	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$



BGS84W

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Off Characteristics (Note 3)						
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V, I_D=-250\mu A$	-50	-	-	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-50V, V_{GS}=0V, T_J=25^\circ\text{C}$	-	-	-15	μA
		$V_{DS}=-50V, V_{GS}=0V, T_J=125^\circ\text{C}$	-	-	-60	
		$V_{DS}=-25V, V_{GS}=0V, T_J=25^\circ\text{C}$	-	-	-0.1	
Gate-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	± 10	nA
On Characteristics (Note 3)						
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=-1mA$	-0.8	-1.44	-2	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=-5V, I_D=-0.1A$	-	3.8	10	Ω
Forward Transconductance	g_{FS}	$V_{DS}=-25V, I_D=-0.1A$	0.05	-	-	S
Dynamic Characteristics						
Input Capacitance	C_{iss}	$V_{DS}=-25V, V_{GS}=0V, f=1MHz$	-	-	45	μF
Output Capacitance	C_{oss}		-	-	25	
Reverse Transfer Capacitance	C_{rss}		-	-	12	
Switching Characteristics						
Turn-On Delay Time	$t_{d(on)}$	$V_{DD}=-30V, I_D=-0.27A,$	-	7.5	-	ns
Turn-Off Delay Time	$t_{d(off)}$	$V_{GS}=-10V, R_{GEN}=50\Omega$	-	25	-	ns

NOTES :

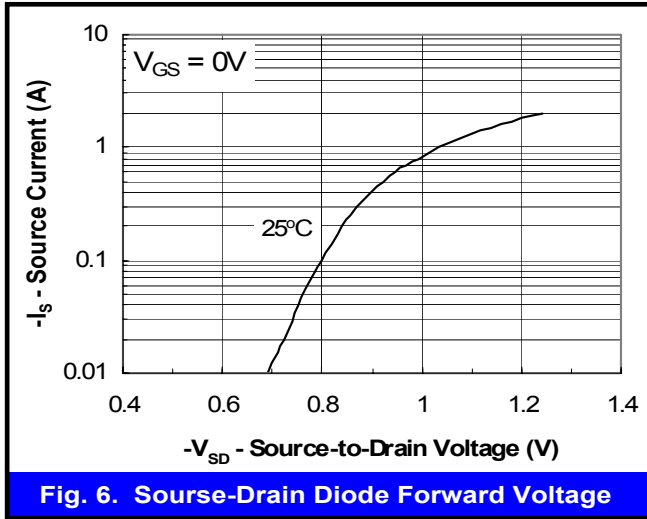
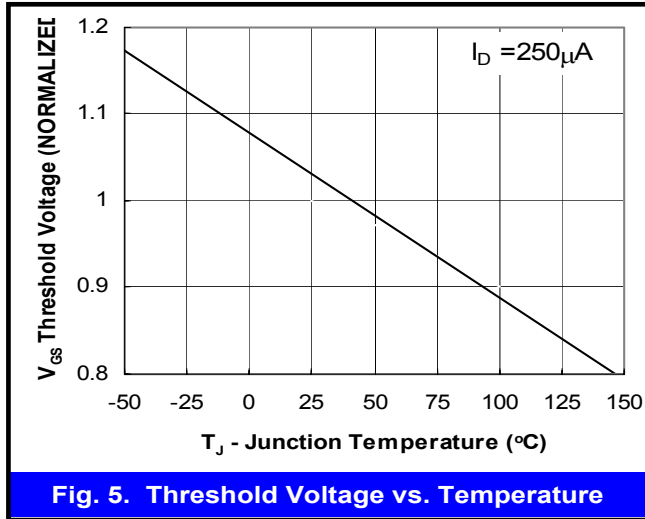
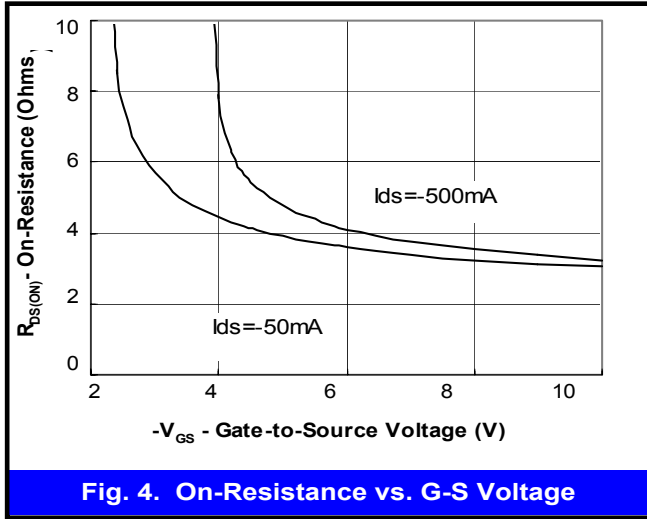
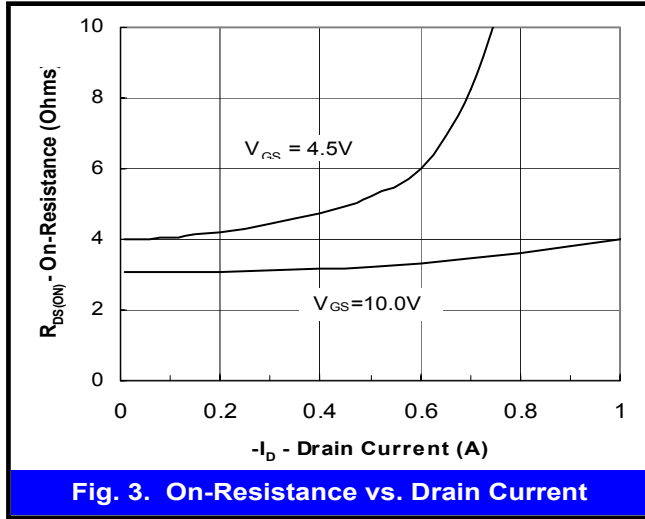
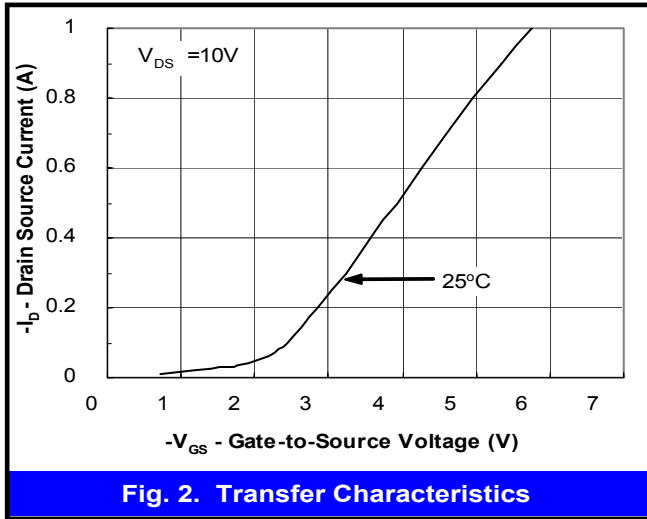
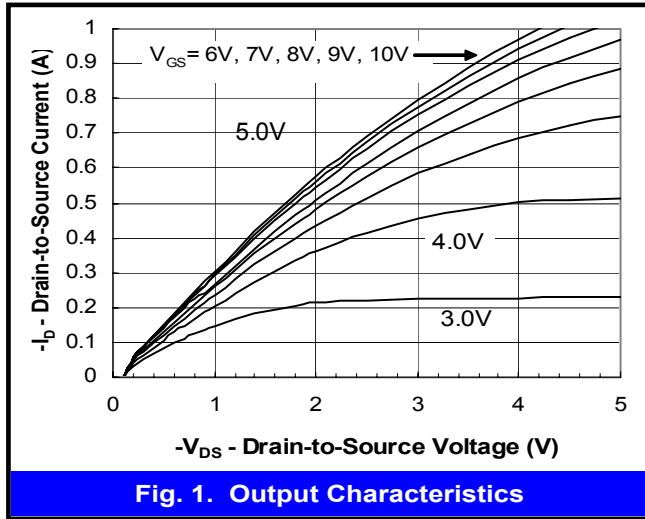
- $R_{GS} < 20K \Omega$
- FR-5 board 1 x 0.75 x 0.062 inch with minimum recommended pad layout.
- Short duration test pulse used to minimize self-heating.



BGS84W

ELECTRICAL CHARACTERISTIC CURVES

$T_J = 25^\circ\text{C}$ Unless otherwise noted



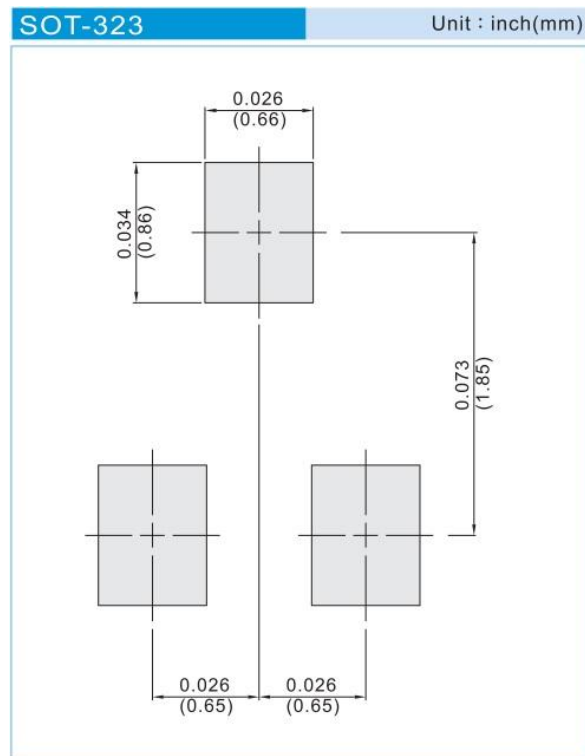


BGS84W

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
BSS84W_R1_00001	SOT-323	3K pcs / 7" reel	84W	Halogen free
BSS84W_R2_00001	SOT-323	12K pcs / 13" reel	84W	Halogen free

MOUNTING PAD LAYOUT





BGS84W

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)