

1N5818 BK TIN/LEAD Datasheet



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DiGi Electronics Part Number	1N5818 BK TIN/LEAD-DG
Manufacturer	Central Semiconductor Corp
Manufacturer Product Number	1N5818 BK TIN/LEAD
Description	DIODE SCHOTTKY 30V 1A DO41
Detailed Description	Diode 30 V 1A Through Hole DO-41

This model 1N5818 BK TIN/LEAD is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

1N5818 BK TIN/LEAD

Series:

-

Technology:

Schottky

Current - Average Rectified (Io):

1A

Speed:

Fast Recovery =< 500ns, > 200mA (Io)

Capacitance @ Vr, F:

-

Package / Case:

DO-204AL, DO-41, Axial

Operating Temperature - Junction:

-65°C ~ 150°C

Manufacturer:

Central Semiconductor Corp

Product Status:

Active

Voltage - DC Reverse (Vr) (Max):

30 V

Voltage - Forward (Vf) (Max) @ If:

550 mV @ 1 A

Current - Reverse Leakage @ Vr:

1 mA @ 30 V

Mounting Type:

Through Hole

Supplier Device Package:

DO-41

Environmental & Export classification

RoHS Status:

RoHS non-compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0080

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

1N5817

1N5818

1N5819

SCHOTTKY BARRIER RECTIFIER

JEDEC DO-41 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N5817 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using a metal to silicon junction to yield low forward voltage drop and instantaneous reverse recovery times.

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

	SYMBOL	1N5817	1N5818	1N5819	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	V
DC Blocking Voltage	V_R	20	30	40	V
RMS Reverse Voltage	$V_R(\text{RMS})$	14	21	28	V
Average Forward Surge Current ($T_L=100^\circ\text{C}$)	I_0		1.0		A
Peak Forward Surge Current	I_{FSM}		25		A
Operating and Storage Junction Temperature	T_J, T_{STG}		-65 TO +150		$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	1N5817		1N5818		1N5819		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
I_R	$V_R=V_{RRM}$		1.0		1.0		1.0	mA
I_R	$V_R=V_{RRM}, T_A=100^\circ\text{C}$		10		10		10	mA
V_F	$I_F=0.1\text{A}$		0.320		0.330		0.340	V
V_F	$I_F=1.0\text{A}$		0.450		0.550		0.600	V
V_F	$I_F=3.1\text{A}$		0.750		0.875		0.900	V



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- Custom product packing

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- SPICE models
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- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
 145 Adams Avenue
 Hauppauge, NY 11788 USA
 Main Tel: (631) 435-1110
 Main Fax: (631) 435-1824
 Support Team Fax: (631) 435-3388
www.centrasemi.com

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