



America Semiconductor

**Silicon Power
Schottky Diode**

**1N5832 thru
1N5834R**

$V_{RRM} = 10\text{ V} - 30\text{ V}$

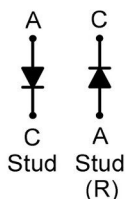
$I_F = 40\text{ A}$

Features

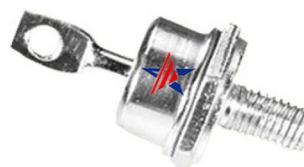
- High Surge Capability
- Types up to 30V V_{RRM}

Note:

1. Standard polarity: Stud is cathode.
2. Reverse polarity (R): Stud is anode.
3. Stud is base.



DO-5 Package



Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	1N5832 (R)	1N5833 (R)	1N5834 (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		20	30	40	V
RMS reverse voltage	V_{RMS}		14	21	28	V
DC blocking voltage	V_{DC}		20	30	40	V
Continuous forward current	I_F	$T_C \leq 100\text{ }^\circ\text{C}$	40	40	40	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^\circ\text{C}$, $t_p = 8.3\text{ ms}$	800	800	800	A
Operating temperature	T_j		-65 to 150	-65 to 150	-65 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-65 to 175	-65 to 175	-65 to 175	$^\circ\text{C}$

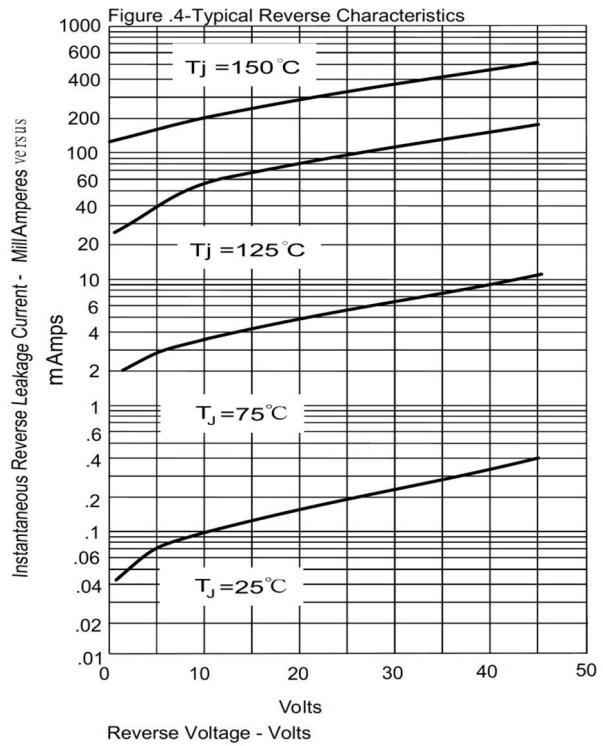
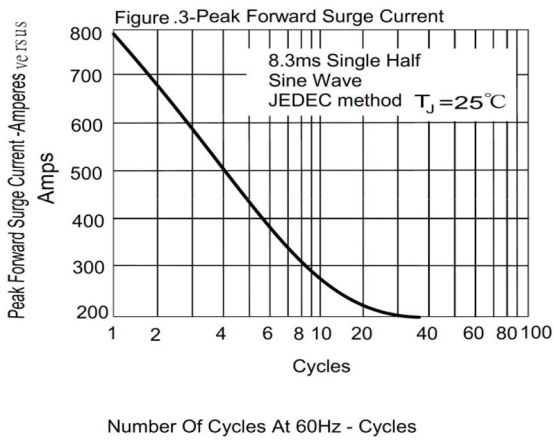
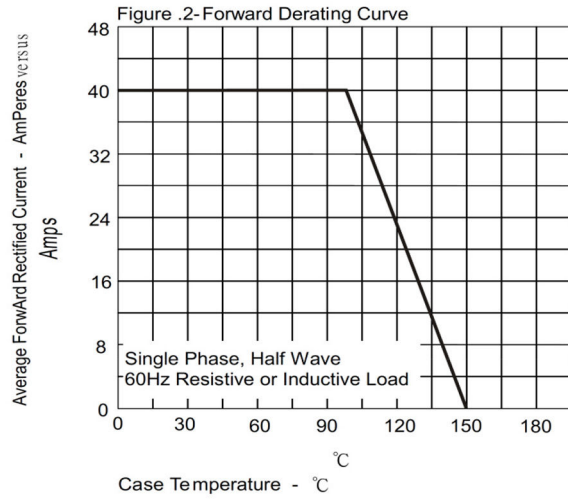
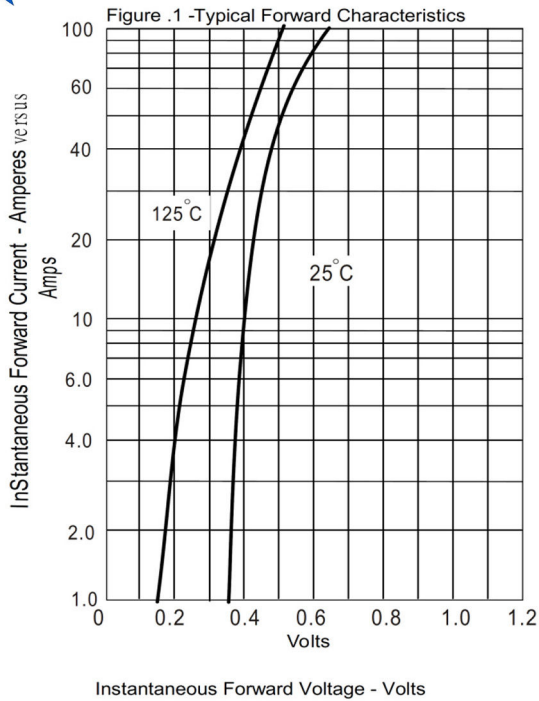
Electrical characteristics, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	1N5832 (R)	1N5833 (R)	1N5834 (R)	Unit
Diode forward voltage	V_F	$I_F = 40\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$	0.52	0.55	0.59	V
Reverse current	I_R	$V_R = 10\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$ $V_R = 10\text{ V}$, $T_j = 125\text{ }^\circ\text{C}$	20 250	20 250	20 250	mA

Thermal characteristics

Thermal resistance, junction - case	R_{thJC}		1.5	1.5	1.5	$^\circ\text{C/W}$
-------------------------------------	------------	--	-----	-----	-----	--------------------







LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.