

1N5820 THRU 1N5822

Surface Mount Schottky Barrier Recitifiers

Features

- Low forward voltage drop
- High surge capability
- The plastic material carries UL recognition 94V-0

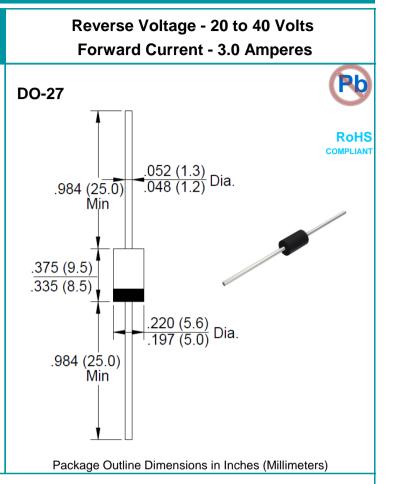
Mechanical Data

- •Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any
- Note: Products with logo

are made by HY Electronic (Cayman) Limited.

Applications

• For use in low vlotage, high frequency inverters, polarity protection applications



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Symbol VRRM	1N5820	1N5821	1N5822	Unit
VKKIVI	20	30	40	V
Vrms	14	21	28	V
VDC	20	30	40	V
I(AV)	3.0		А	
Ігѕм	80		A	
VF	0.45	0.55	0.60	V
VF	0.850	0.900	0.950	V
lr	1.0 20			mA
CJ	250			pF
Rejl	20			°C/W
TJ	-55 to +150			°C
Тѕтс	-55 to +150			°C
	VRMS VDC I(AV) IFSM VF IR R0JL TJ	VRMS 14 VDC 20 I(AV) 20 IFSM	$\begin{tabular}{ c c c c } \hline VRMS & 14 & 21 \\ \hline VDC & 20 & 30 \\ \hline $I(AV) & $$.$$$.$$$.$$$.$$$.$$$.$$$$.$$$$.$$$$	$\begin{tabular}{ c c c c c } \hline V_{RMS} & 14 & 21 & 28 \\ \hline V_{DC} & 20 & 30 & 40 \\ \hline $I(AV)$ & 3.0 & 40 \\ \hline $I(AV)$ & 3.0 & 3.0 \\ \hline $I(AV)$ & 0.55 & 0.60 & 0.90 & 0.950 \\ \hline V_{F} & 0.45 & 0.55 & 0.60 & 0.900 & 0.950 \\ \hline V_{F} & 0.850 & 0.900 & 0.950 & 0.950 & 0.90 & 0.950 \\ \hline V_{F} & 0.850 & 0.900 & 0.950 & 0.950 & 0.950 & 0.950 & 0.950 & 0.90 & 0.950 & 0.950 & 0.90 & 0.950 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.950 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & 0.90 & $$

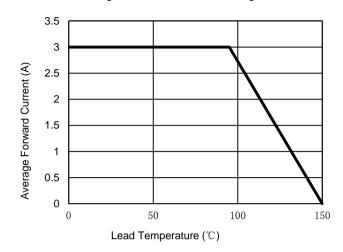
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

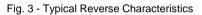
2. The typical data above is for reference only.

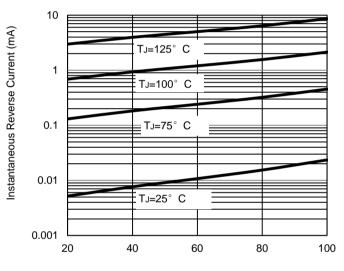
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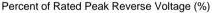
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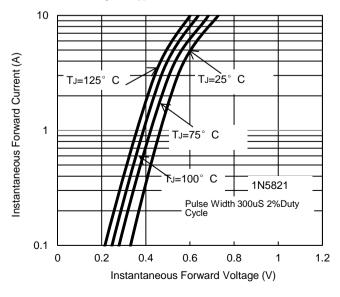












The curve above is for reference only.

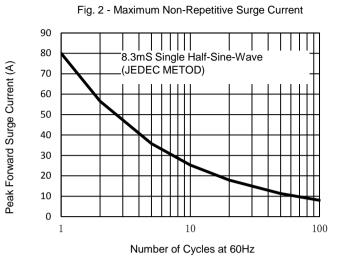
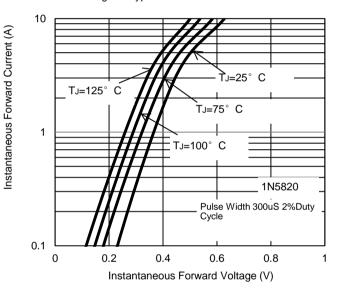
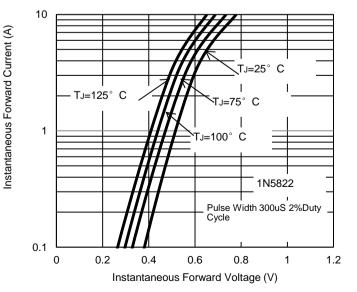


Fig. 4 - Typical Forward Characteristics







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