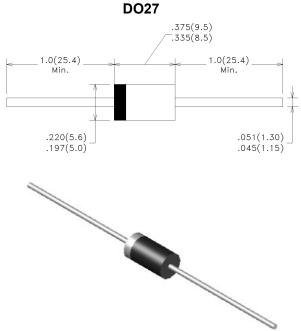


Schottky Barrier Rectifier 3.0 A / 40V

Package Outline Dimensions in mm (inches)



Features

- Metal-Semiconductor junction with guarding
- Very low forward votage drop
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

• For use in in low voltage, high frequency inverters.

Mechanical Data

- Case:DO27 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)					
Parameter	Symbol	1N5822	Unit		
Maximum recurrent peak reverse voltage	VRRM	40	V		
Maximum RMS voltage	VRMS	28	V		
Maximum DC blocking voltage	VDC	40	V		
Maximum average forward rectified current (Note1)	IF(AV)	3.0	А		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	80	A		
Storage temperature range	TS	-55 to 150	°C		
Operating Junction temperature range	Tj	-55 to 125	°C		
Thermal Resistance (Note1)	RthJL	12	°C /W		

Note1: Vertical P.C.B. mounting, 12.7 mm lead length with 63.5 mm x 63.5 mm copper pad.

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Parameter	Test Conditions	Symbol	1N5822	Unit
Maximum forward voltage	IF=3.0 A	VF	0.55	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C		0.5	mA
	TA=100°C	IR	10	



Characteristics Curves

