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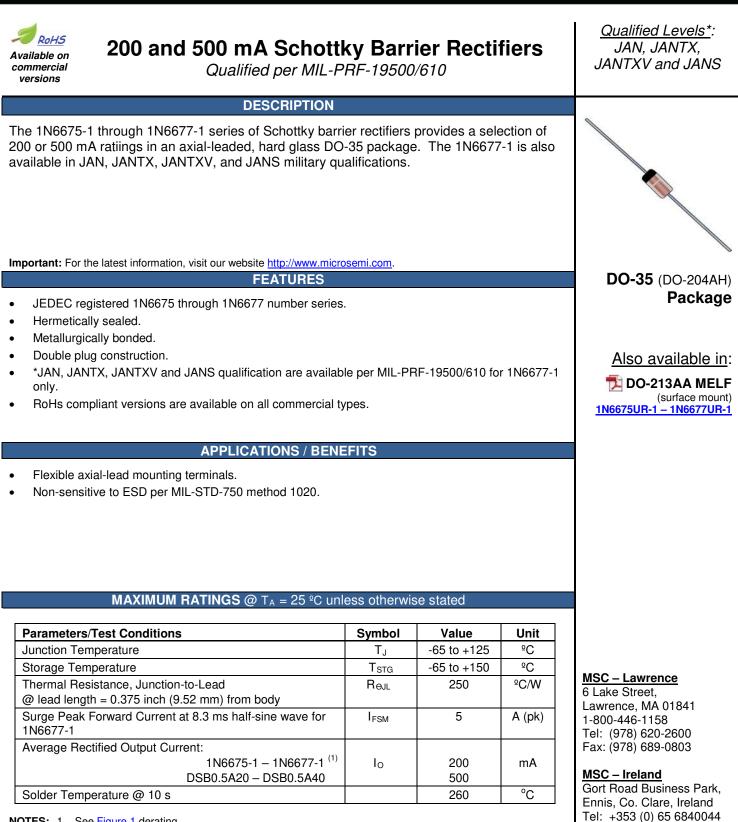


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NOTES: 1. See Figure 1 derating.

T4-LDS-0302, Rev. 1 (6/13/13)

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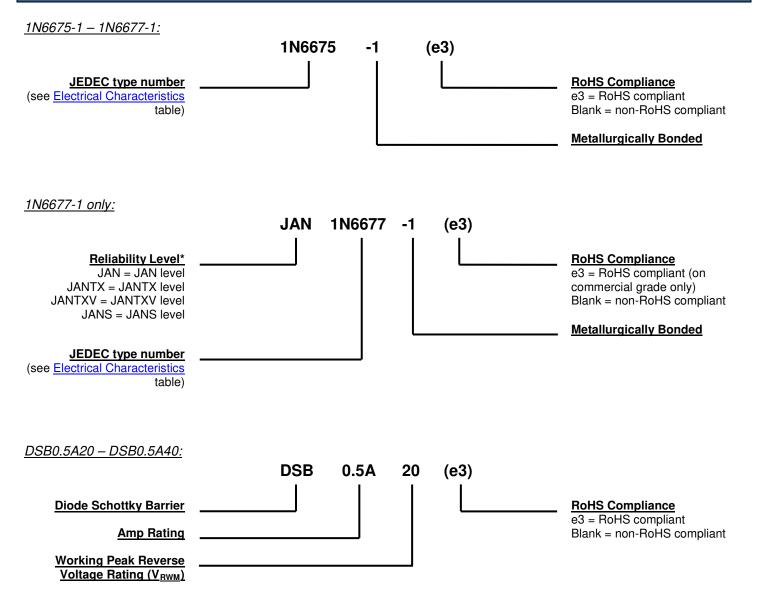
Website:



MECHANICAL and PACKAGING

- CASE: Hermetically sealed glass case. DO-35 (DO-204AH) package.
- TERMINALS: Tin-lead or RoHS compliant annealed matte-tin plating (commercial grade only) over copper clad steel. Solderable per MIL-STD-750, method 2026.
- MARKING: Part number and cathode band.
- POLARITY: Reference diode to be operated with the banded (cathode) end positive with respect to the opposite end.
- TAPE & REEL option: Standard per EIA-296 (add "TR" suffix to part number). Consult factory for quantities.
- WEIGHT: Approximately 0.2 grams.
- See <u>Package Dimensions</u> on last page.

PART NOMENCLATURE





SYMBOLS & DEFINITIONS								
Symbol	Definition							
С	Capacitance: The capacitance in pF at a frequency of 1 MHz and specified voltage.							
f	frequency							
I _R	Reverse Current: The dc current flowing from the external circuit into the cathode terminal at the specified voltage V _R .							
I _{FSM}	Surge Peak Forward Current: The forward current including all nonrepetitive transient currents but excluding all repetitive transients (ref JESD282-B)							
Ι _Ο	Average Rectified Output Current: The Output Current averaged over a full cycle with a 50 Hz or 60 Hz sine-wave input and a 180 degree conduction angle.							
V _(BR)	Breakdown Voltage: A voltage in the breakdown region.							
VF	Forward Voltage: A positive dc anode-cathode voltage the device will exhibit at a specified forward current.							
VR	Reverse Voltage: A positive dc cathode-anode voltage below the breakdown region.							
V _{RWM}	Working Peak Reverse Voltage: The peak voltage excluding all transient voltages (ref JESD282-B). Also sometimes known historically as PIV.							

ELECTRICAL CHARACTERISTICS @ 25 °C unless otherwise specified

200 mA options:

TYPE NUMBER (Note 1)	WORKING PEAK REVERSE VOLTAGE	MAXIMUM FORWARD VOLTAGE	MAXIMUM FORWARD VOLTAGE	MAXIMUM FORWARD VOLTAGE	REVI LEAI CUR	IMUM ERSE (AGE RENT ⊉ V _{RM}	$\label{eq:constraint} \begin{array}{c} \text{MAXIMUM} \\ \text{CAPACITANCE} \\ @ \ V_{\text{R}} = 0 \\ \text{VOLTS} \\ f = 1.0 \ \text{MHz} \end{array}$
	V _{RWM}	V _F @ 20 mA	V _F @ 200 mA	V _F @ 630 mA	T」= +25 ºC	T」= 100 ℃	С
	V (pk)	Volts	Volts	Volts	μΑ	mA	pF
1N6675-1	20	0.37	0.50	0.70	5.0	0.60	50
1N6676-1	30	0.37	0.50	0.70	5.0	0.60	50
1N6677-1	40	0.37	0.50	0.70	5.0	0.60	50

NOTE: 1. These numbers can also be ordered as DSB0.2A20, DSB0.2A30, and DSB0.2A40.

500 mA options:

TYPE NUMBER	WORKING PEAK REVERSE VOLTAGE	MAXIMUM FORWARD VOLTAGE	MAXIMUM FORWARD VOLTAGE	REV LEAI CUR	IMUM ERSE KAGE RENT ② V _{RM}	$\begin{array}{l} \textbf{MAXIMUM} \\ \textbf{CAPACITANCE} \\ @ V_{R} = 0 \\ \textbf{VOLTS} \\ f = 1.0 \text{ MHz} \end{array}$
	V _{RWM}	V _F @ 100 mA	V _F @ 500 mA	T」= +25 ºC	T」= 100 ℃	Ст
	V (pk)	Volts	Volts	μΑ	mA	pF
DSB0.5A20	20	0.50	0.65	10.0	1.0	60
DSB0.5A30	30	0.50	0.65	10.0	1.0	60
DSB0.5A40	40	0.50	0.65	10.0	1.0	60



GRAPHS

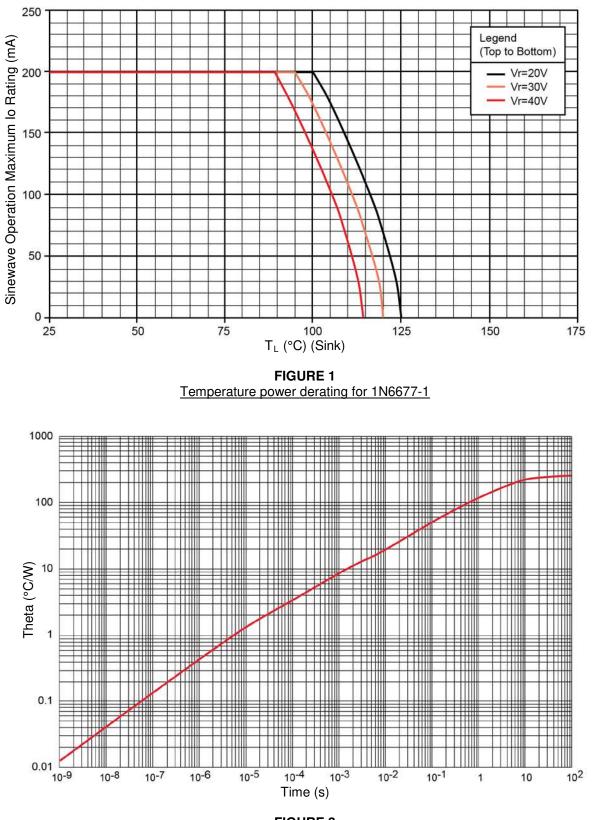
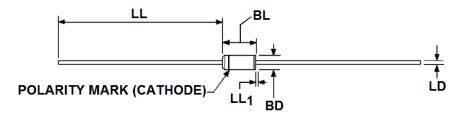


FIGURE 3 Thermal impedance curve for 1N6677-1



PACKAGE DIMENSIONS



	Inch		Millin		
Ltr	Min	Max	Min	Max	Notes
BD	0.060	0.075	1.52	1.91	3
BL	0.140	0.180	3.56	4.57	3
LD	0.018	0.022	0.46	0.56	
LL	1.000	1.500	25.40	38.10	
LL ₁		0.050		1.27	4

NOTES:

- 1. Dimensions are in inches.
- 2. Millimeters are given for information only.
- 3. Package contour optional within BD and length BL. Heat slugs, if any shall be included within this cylinder but shall not be subject to minimum limit of BD.
- 4. Within this zone, lead diameter may vary to allow for lead finishes and irregularities, other than heat slugs.
- 5. In accordance with ASME Y14.5M, diameters are equivalent to Φx symbology.
- 6. The dimensions shown are tighter in tolerance than dimensions shown in the military slash sheet (/156) since Microsemi now only offers the smaller DO-35 package option rather than the larger DO-7.