

High-reliability discrete products and engineering services since 1977

3N253-3N259

GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Rating	Symbol	3N253	3N254	3N255	3N256	3N257	3N258	3N259	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward output rectified current at T _A = 50°C	I _{F(AV)}	2.0							Amps
Peak forward surge current single half-sine wave superimposed on rated load T_3 = 150°C	I _{FSM}	60.0						Amps	
Rating for fusing (t < 8.3ms)	I²t	15.0						A ² s	
Typical thermal resistance per leg (1)	R _{⊝JA}	30.0					°C/W		
	R _{⊝JL}				11.0				C/ W
Operating and storage temperature range	T _J , T _{stg}	-55 to +165							°C

Note 1: Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47 x 0.47" copper pads.

ELECTRICAL CHARACTERISTICS (T_C = 25°C)

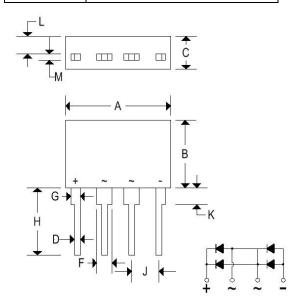
Characteristic	Symbol	3N253	3N254	3N255	3N256	3N257	3N258	3N259	Units
Maximum instantaneous forward voltage drop per leg at 3.14A	V _F				1.1				Volts
Maximum DC reverse current at rated DC blocking voltage per leg $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	${ m I}_{ m R}$				5 500				μА
Typical junction capacitance	C ₁				25				pF

Rev. 20171221



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MECHANICAL CHARACTERISTICS					
Case:	Digi M				
Marking:	Body painted, alpha-numeric				
Pin out:	See below				



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	Digi M							
	Inc	hes	Millimeters					
	Min	Max	Min	Max				
Α	0.580	0.620	14.732	15.748				
В	0.360	0.400	9.144	10.160				
С	0.185	0.195	4.699	4.953				
D	0.025	0.035	0.635	0.889				
F	0.080	0.090	2.032	2.286				
G	0.040	0.055	1.016	1.397				
Н	0.390	0.430	9.906	10.922				
J	0.145	0.160	3.683	4.064				
K	0.080	0.090	2.032	2.286				
L	0.090	0.110	2.286	2.794				
M	0.025	0.035	0.635	0.889				



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