



- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

: Tin plated leads, solderable per J-STD-002 and JESD22-B102

- Color band denotes cathode end

■ (Ta=25 Unless otherwise specified

Device marking code			1N5416G
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	1600
Maximum RMS Voltage	V _{RMS}	V	1120
Maximum DC blocking Voltage	V _{DC}	V	1600
Average Forward Current @60Hz sine wave, Resistance load, Ta =55	I _{F(AV)}	A	3.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I _{FSM}	A	120
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			240
Current squared time @1ms≤t≤8.3ms Tj=25 Rating of pC≤	I ² t	A ² s	60
Typical junction capacitance @ Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C _j	pF	27
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +150

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Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =3.0A	1.2
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25	5
			T _j =125	150



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