



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

($T_a=25$ 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, $T_a=55$	$I_{F(AV)}$	A	3.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	I_{FSM}	A	120
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			240
Current squared time @1ms t8.3 ms $T_j=25$ Rating of pC	I^2t	A^2s	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

$T_a=25$ Unless otherwise specified

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



$T_a=25$ Unless otherwise specified





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