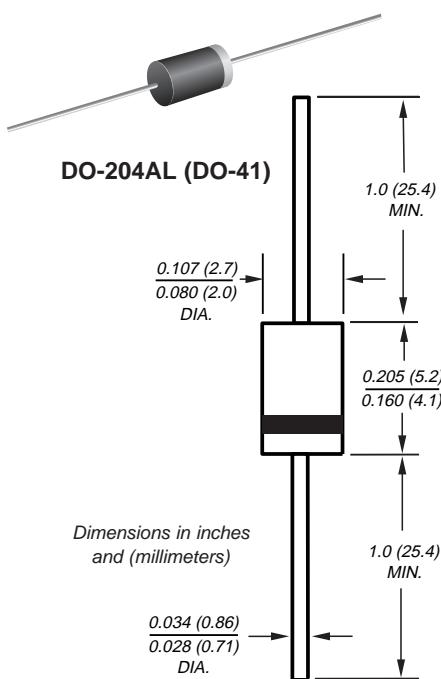


General Purpose Plastic Rectifiers

Reverse Voltage

50 to 1000V

Forward Current 1.0A



Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-204AL, molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 oz., 0.3 g

Packaging Codes/Options:

1/5K per bulk box, 50K per carton

4/5.5K per 13" reel (52.4mm tape), 22K per carton

23/3K per ammo mag. (52.4mm tape), 27K per carton

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	M100A	M100B	M100D	M100G	M100J	M100K	M100M	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A = 100°C	I _{F(AV)}					1.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _A = 75°C						50			A
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at T _A = 55°C	I _{R(AV)}				100				μA
Typical thermal resistance ⁽¹⁾	R _{θJA} R _{θJL}				50				°C/W
Operating junction and storage temperature range	T _{J,TSTG}				-50 to +150				°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	M100A	M100B	M100D	M100G	M100J	M100K	M100M	Unit
Maximum instantaneous forward voltage at 1.0A	V _F			1.0		1.1			V
Maximum DC reverse current T _A = 25°C at rated DC blocking voltage T _A = 100°C	I _R			1.0		50			μA
Typical reverse recovery time at I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A	t _{rr}			2.0					μs
Typical junction capacitance at 4.0V, 1MHz	C _J			15					pF

Note: (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

M100A thru M100M



Vishay Semiconductors
formerly General Semiconductor

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

