



High Voltage Glass Passivated Junction Rectifiers Reverse Voltage 1250 to 2000 Volts Forward Current 1.0 Ampere

Features

◆ Low forward voltage drop

- High current capability
- ♦ High reliability
- High surge current capability
- ◆ Repetitive peak reverse voltage: 1250-2000V
- ◆ Plastic material has UL classification 94V-0

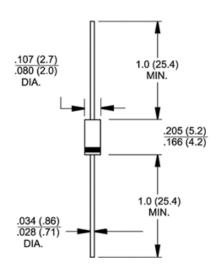


2018

DO-204AL (DO-41)

Mechanical Data

- ◆ Plastic case: DO-204AL (DO-41)
- ◆ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- ◆ High temperature soldering guaranteed: 250°C/10 seconds .375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0.012 ounce, 0.33 gram



Maximum Ratings and Electrical Characteristics

Dimensions in inches and (millimeters)

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	BY127	BY133	EM513	EM516	EM518	Units
Maximum repetitive peak reverse voltage	V _{RRM}	1250	1300	1600	1800	2000	Volts
Maximum RMS voltage	V _{RMS}	875	910	1120	1260	1400	Volts
Maximum DC blocking voltage	V _{DC}	1250	1300	1600	1800	2000	Volts
Max. average forward rectified current, R-load T _A =75°C ¹⁾	I _{F(AV)}	1.0					Amp
Max. average forward rectified current, R-load T _A =100°C ¹⁾	I _{F(AV)}	0.75					Amp
Repetitive peak forward current ¹⁾ (f>15Hz)	I _{FRM}	10					Amps
Peak forward surge current, 50 Hz half sine-wave at T _A =25°C	I _{FSM}	50.0					Amps
Rating for fusing, t<10 ms T _A =25°C	i²t	12.5					A²s
Maximum forward voltage at 1.0A T _J =25°C	V _F	1.1					Volts
Leakage current T_i =25°C V_R = V_{RRM} T_i =100°C V_R = V_{RRM}	l _R	5 200					uА
Thermal resistance junction to ambient air	R _{eJA}	45.0					K/W 1)
Operating junction temperature	T,	-50 to +150					°C
Storage temperature range	T _{stg}	-50 to +150					°C

Notes: 1. Valid, if leads are kept at ambient temperature at a distance of 10 mm from case

