

**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 1.0 A**

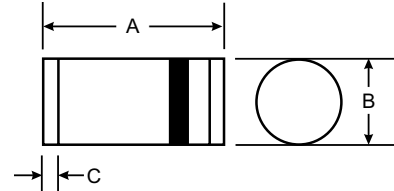


### Features

- Superefficient structure for high reliability condition
- Patented glass-plastic encapsulation technique  
Ideal for automated placement
- Fast switching for high efficiency
- Low leakage current
- High forward surge capability

### Mechanical Data

- Case: LL41(DO-213AB), Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Mounting Position: Any
- Approx Weight: 0.25 grams



LL41/ DO-213AB		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	BYM 11-50	BYM 11-100	BYM 11-200	BYM 11-400	BYM 11-600	BYM 11-800	BYM 11-1000	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T <sub>J</sub> = 55 °C	I <sub>F(AV)</sub>	1.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30							A
Maximum full load reverse current, full cycle average at T <sub>A</sub> = 55 °C	I <sub>R(AV)</sub>	50							μA
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	- 65 to + 175							°C
Maximum instantaneous forward voltage at 1.0 A	V <sub>F</sub>	1.3							V
Maximum DC reverse current at rated DC blocking voltage T <sub>A</sub> = 25 °C T <sub>A</sub> = 125 °C	I <sub>R</sub>	5.0 50							μA
Maximum reverse recovery time at I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A, I <sub>rr</sub> = 0.25 A	t <sub>rr</sub>	150				250	500		ns
Typical junction capacitance at 4.0 V, 1 MHz	C <sub>J</sub>	15							pF

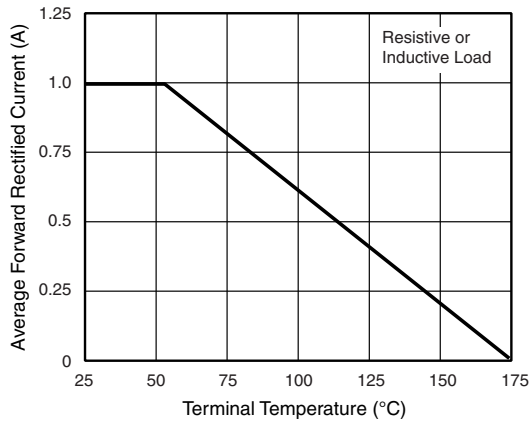


Figure 1. Forward Current Derating Curve

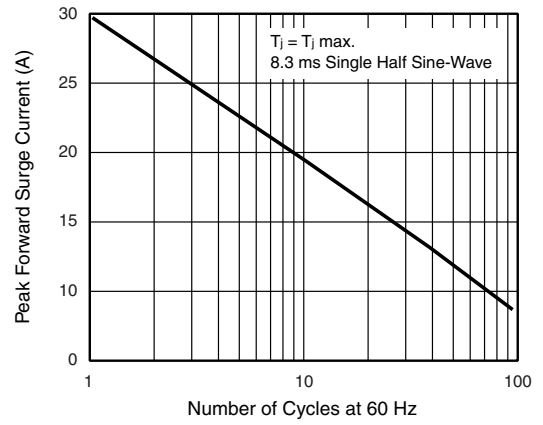


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

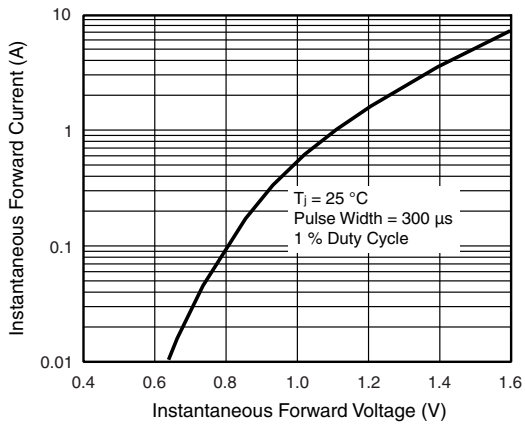


Figure 3. Typical Instantaneous Forward Characteristics

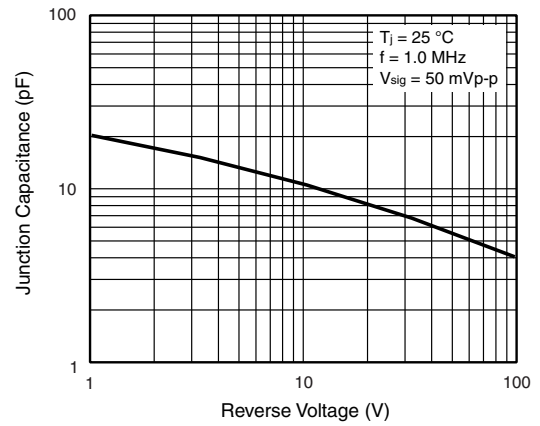


Figure 5. Typical Junction Capacitance

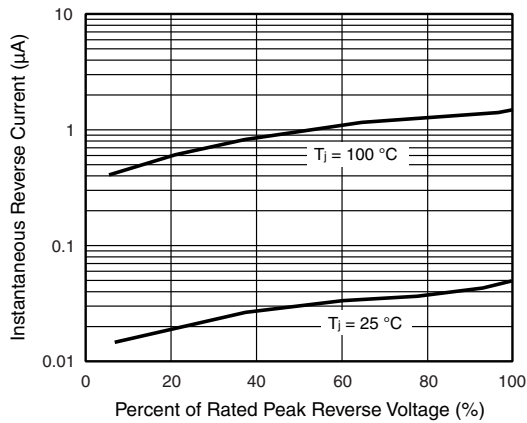


Figure 4. Typical Reverse Characteristics

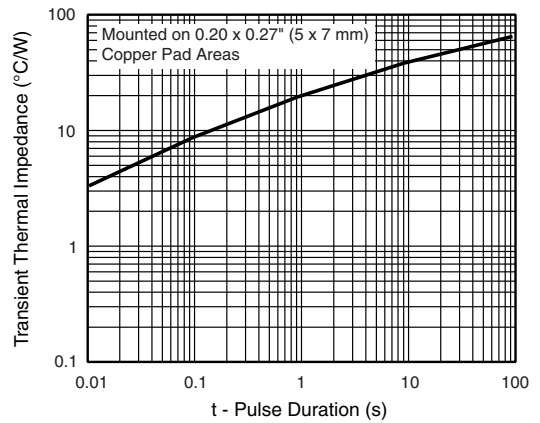


Figure 6. Typical Transient Thermal Impedance