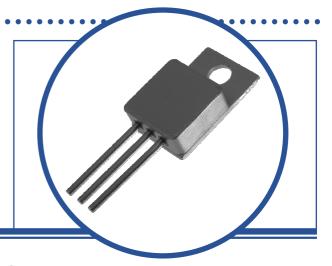
DUAL FAST RECOVERY RECTIFIER DIODE



BYV32-50M BYV32-100M BYV32-150M BYV32-200M

- Very Low Reverse Recovery Time t_{rr} <35ns.
- Voltage Range 50V To 200V.
- Hermetic TO220 (TO-257AB) Isolated Metal Package.
- Ideally Suited For Switching Power Supplies, Inverters And As Free Wheeling Diodes.
- Space Level and High-Reliability Screening Options Available



ABSOLUTE MAXIMUM RATINGS (PerDiode, T_C= 25°C unless otherwise stated)

		50M	100M	150M	200M
V_{RRM}	Repetitive Peak Reverse Voltage		100V	150V	200V
V_{RWM}	Working Peak Reverse Voltage		100V	150V	200V
V_{R}	Continuous Reverse Voltage	50V	100V	150V	200V
I _{FRM}	Repetitive Peak Forward Current (t _p = 10µs)	200A			
I _{F(AV)} (1)	Average Forward Current (T _C = 70°C)	20A			
IFSM	Surge Peak Forward Current (t _p = 8.3ms half-sine)	80A			
T _{STG}	StorageTemperature Range	-65 to +200°C			
TJ	Maximum Operating Junction Temperature	+200°C			

ELECTRICAL CHARACTERISTICS (Per Diode, T_C = 25°C unless otherwise stated)

Symbol	Parameter	Test Conditions		Min	Тур	Мах	Units
V _F (2)	Forward Voltage Drop	I _F = 8A	T _C = 25°C			1.1	V
		I _F = 20A				1.5	
		I _F = 5A	T _C = 100°C			0.95	
I _R	$V_R = V_{RV}$					30	
	Reverse Leakage Current		T _C = 100°C			600	μΑ
t _{rr1} (3)		I _F = 1.0A	di/dt = 50A/µs			35	
t _{rr2}	Reverse Recovery Time	I _F = 0.5A	I _R = 1.0A			25	ns
		$I_F = 0.5A$ $I_{REC} = 0.25A$			25		

Notes

- (1) Switching operation, Duty Cycle = 50%, both diodes conducting.
- (2) Pulse Width < 300µs, Duty Cycle < 2%
- (3) By design, not a production test

THERMAL PROPERTIES

Symbol	Parameter	Max	Units
R _{0JC}	Thermal Resistance Junction to Case (per diode)	4.3	°C/W

Semelab Limited reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing an order.

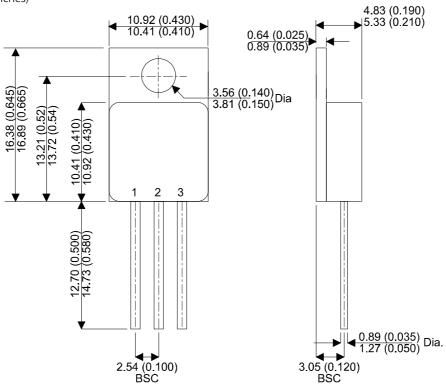


DUAL FAST RECOVERY RECTIFIER DIODE BYV32-M SERIES



MECHANICAL DATA

Dimensions in mm (inches)



TO220M (TO-257AB)

<u>Variant</u>	<u>Pin 1</u>	<u>Pin 2</u>	Pin3
BYV32-xxxM	Anode 1	Cathode	Anode 2
BYV32-xxxAM	Cathode 1	Anode	Cathode 2
BYV32-xxxRM	Cathode 1	Centre Tap	Anode



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