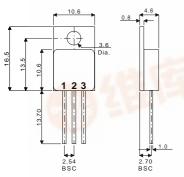
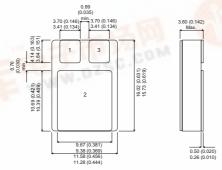


BYV32-50M BYV32-100M BYV32-150M BYV32-200M

MECHANICAL DATA

Dimensions in mm





TO220 METAL

SMD1
CERAMIC SURFACE MOUNT

ELECTRICAL CONNECTIONS

Common Cathode Common Anode Series Connection BYV32-xxxM BYV32-xxxAM BYV32-xxxRM 1 = A₁ Anode 1 1 = K₁ Cathode 1 2 = K Cathode 2 2 = Centre Tap 3 = A₂ Anode 2 3 = K₂ Cathode 2 3 = A₂ Anode

HERMETICALLY SEALED DUAL FAST RECOVERY SILICON RECTIFIER FOR HI–REL APPLICATIONS

- STANDARD (COMMON CATHODE)
- COMMON ANODE
- SERIES CONNECTION

FEATURES

- HERMETIC TO220 METAL OR CERAMIC SURFACE MOUNT PACKAGE
- SCREENING OPTIONS AVAILABLE
- ALL LEADS IOLATED FROM CASE
- VOLTAGE RANGE 50 TO 200V
- AVERAGE CURRENT 20A
- VERY LOW REVERSE RECOVERY TIME t_{rr} = 35ns
- VERY LOW SWITCHING LOSSES

Applications include secondary rectification in high frequency switching power supplies.

50V 50V 50V	100V 100V	150V 150V	200V		
	100V	150V			
50V	1	1 '00'	200V		
1	100V	150V	200V		
	200A				
	20A				
(switching operation, δ = 0.5, both diodes conducting)					
	80A				
	−65 to 200°C				
	200°C				
		20 80 –65 to	20A 80A –65 to 200°C		



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

ELECTRICAL CHARACTERISTICS (Per Diode) $(T_{case} = 25^{\circ}C)$ unless otherwise stated)

	Parameter	Test Cor	nditions	Min.	Тур.	Max.	Unit
1_	Reverse Current	$V_R = V_{RWM}$	T _j = 25°C			30	μΑ
I _R	Reverse Current	$V_R = V_{RWM}$	T _j = 100°C			0.6	mA
		I _F = 8A	T _C = 25°C			1.1	
V _F *	Forward Voltage	I _F = 20A	$T_C = 25^{\circ}C$			1.5	V
		I _F = 5A	T _C = 100°C			0.95	
t _{rr}	Reverse Recovery Time	I _F = 2A	V _R = 30V			35	ns
		di / dt = 20A/μs				33	115
		I _F = 1A	V _R = 30V			50	no
		di / dt = 50A/μs				30	ns
Q _{rr}	Recovered Charge	I _F = 2A	V _R = 30V			15	nC
		di / dt = 20A/μs				13	110
V _{FP}	Forward Recovery Overvoltage	di / dt = 10A/μs	I _F = 1A		1.0		V

^{*} Pulse Test: $t_p \leq 300 \mu s, \, duty \; cycle \leq 2\%.$

THERMAL CHARACTERISTICS (TO220 METAL CASE)

R _{0JC} † Thermal Resistance Junction – Case		1.6	°C/W
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[†] Both diodes conducting.