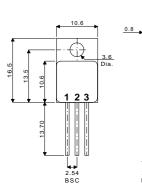
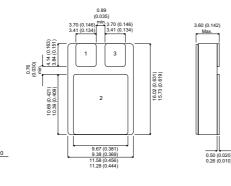


MECHANICAL DATA Dimensions in mm





TO220 METAL

SMD1 CERAMIC SURFACE MOUNT

ELECTRICAL CONNECTIONS

Common Cathod	e Common Anode	Series Connection
BYV <mark>32</mark> -xxxM	BYV32-xxxAM	BYV32-xxxRM
1 = A ₁ Anode 1	1 = K ₁ Cathode 1	1 = K ₁ Cathode 1
2 = K Cathode	2 = A Anode	2 = Centre Tap
3 = A ₂ Anode 2	3 = K ₂ Cathode 2	3 = A ₂ Anode

BYV32–50M BYV32–100M BYV32–150M BYV32–200M

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.

ABSOLU	JTE MAXIMUM RATINGS (T _{case} = 25°C c	unless otherwise stated)	BYV32 -50M	BYV32 –100M	BYV32 –150M	BYV32 -200M	
V _{RRM}	Peak Repetitive Reverse Voltage		50V	100V	150V	200V	
V _{RWM}	Working Peak Reverse Voltage		50V	100V	150V	200V	
V _R	Continuous Reverse Voltage		50V	100V	150V	200V	
I _{FRM}	Repetitive Peak Forward Current	$t_p = 10 \mu s$		200A			
I _{F(AV)}	Average Forward Current	$T_{case} = 70^{\circ}C$		20A			
	(switching operation, $\delta = 0.5$, both diod	5, both diodes conducting)					
I _{FSM}	Surge Non Repetitive Forward Current $t_p = 10 \text{ ms}$		80A				
T _{stg}	Storage Temperature Range		–65 to 200°C				
Τ _j	Maximum Operating Junction Tempera	ture	200°C				



BYV32–50M BYV32–100M BYV32–150M BYV32–200M

ELECTRICAL CHARACTERISTICS (Per Diode) (T_{case} = 25°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	$T_{C} = 25^{\circ}C$			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
	Roverse Recovery Time	di / dt = 20A/µs				- 55	115
t _{rr}	t _{rr} Reverse Recovery fille	I _F = 1A	V _R = 30V			50	200
		di / dt = 50A/µs			50		ns
Q _{rr} Recove	Pacovarad Charge	I _F = 2A	V _R = 30V			15	nC
	Recovered Charge	di / dt = 20A/µs				10	no
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 _{θJC} † Thermal Resistance Junction – Case		1.6	°C/W
--	---	--	-----	------

† Both diodes conducting.