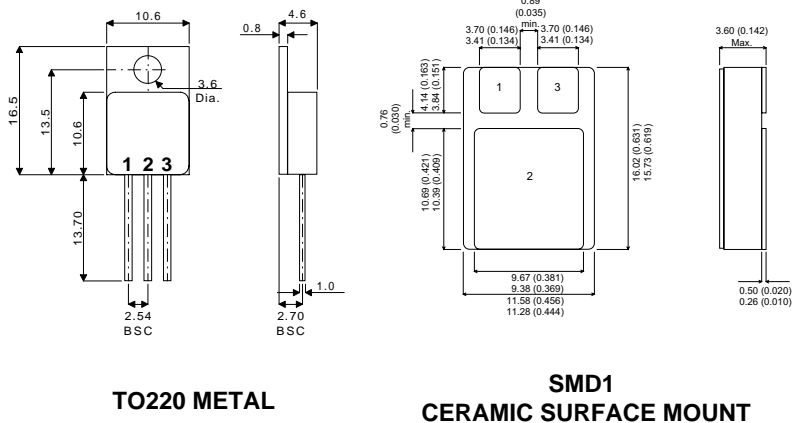


MECHANICAL DATA

Dimensions in mm



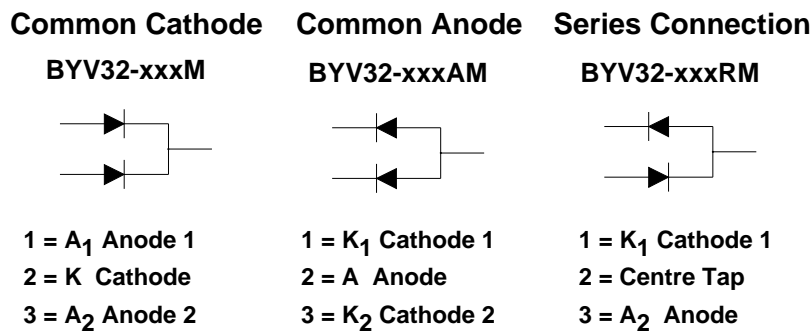
**HERMETICALLY SEALED
DUAL FAST RECOVERY
SILICON RECTIFIER
FOR HI-REL APPLICATIONS**

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

FEATURES

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

ELECTRICAL CONNECTIONS



Applications include secondary rectification in high frequency switching power supplies.

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ 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 $T_{case} = 70^{\circ}C$ (switching operation, $\delta = 0.5$, both diodes conducting)			20A	
I_{FSM}	Surge Non Repetitive Forward Current $t_p = 10 ms$			80A	
T_{stg}	Storage Temperature Range			-65 to 200°C	
T_j	Maximum Operating Junction Temperature			200°C	

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_R Reverse Current	$V_R = V_{RWM}$ $T_j = 25^{\circ}C$			30	μA
	$V_R = V_{RWM}$ $T_j = 100^{\circ}C$			0.6	mA
V_F * Forward Voltage	$I_F = 8A$ $T_C = 25^{\circ}C$			1.1	V
	$I_F = 20A$ $T_C = 25^{\circ}C$			1.5	
	$I_F = 5A$ $T_C = 100^{\circ}C$			0.95	
t_{rr} Reverse Recovery Time	$I_F = 2A$ $V_R = 30V$ $di / dt = 20A/\mu s$			35	ns
	$I_F = 1A$ $V_R = 30V$ $di / dt = 50A/\mu s$			50	ns
Q_{rr} Recovered Charge	$I_F = 2A$ $V_R = 30V$ $di / dt = 20A/\mu s$			15	nC
V_{Fp} Forward Recovery Overvoltage	$di / dt = 10A/\mu s$ $I_F = 1A$		1.0		V

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

THERMAL CHARACTERISTICS (TO220 METAL CASE)

$R_{\theta JC}^{\dagger}$ Thermal Resistance Junction – Case			1.6	$^{\circ}C/W$
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\dagger Both diodes conducting.



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