

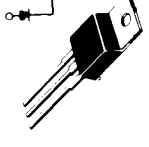
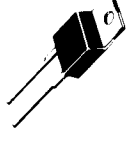
Ultrafast Recovery Rectifiers

EXPANDING the SWITCHMODE rectifier family are these ultrafast devices with reverse recovery times of 25 to 100 nanoseconds. They complement the broad Schottky offering for use in the higher voltage outputs and internal circuitry of switching power supplies as operating frequencies increase

from 20 kHz to 250 kHz. Additional package styles and operating current levels are planned.

All devices are connected cathode to case or cathode to heatsink, where applicable. Reverse polarity may be available on some devices upon special request. Contact your Motorola representative for more information.

Table 25. Ultrafast Recovery Rectifiers

V_{RRM} (Volts)	**I_O, AVERAGE RECTIFIED FORWARD CURRENT (Amperes)						
	1	3	4	6		7	
	59-04 (DO-41) Plastic 	369A-04 Plastic 	267-03 Plastic 	369A-04 Plastic 	221A-04 (TO-220AB) Plastic 	221B-01 (TO-220AC) Plastic 	
50	MUR105	MURD305	MUR405	MURD605CT	MUR605CT	BYW29-50	BYW80-50
100	MUR110	MURD310	MUR410	MURD610CT	MUR610CT	BYW29-100	BYW80-100
150	MUR115	MURD315	MUR415	MURD615CT	MUR615CT	BYW29-150	BYW80-150
200	MUR120	MURD320	MUR420	MURD620CT	MUR620CT	BYW29-200	BYW80-200
300	MUR130		MUR430				
400	MUR140		MUR440				
500	MUR150		MUR450				
600	MUR160		MUR460				
700	MUR170		MUR470				
800	MUR180		MUR480				
900	MUR190		MUR490				
1000	MUR1100		MUR4100				
I_{FSM} (Amps)	35	75	125	63	75	100	100
T_A @ Rated I_O (°C)	50		80				
T_C @ Rated I_O (°C)		158		145	130	150	150
T_J (Max) (°C)	175	175	175	175	175	175	175
t_{rr} ns	25/50/75	35	25/50/75	35	35	35	35

** I_O is total device output.