

Silicon Super Fast Recovery Diode

V_{RRM} = 50 V - 600 V
I_F = 50 A

Features

- High Surge Capability
- Types up to 600 V V_{RRM}

DO-5 Package



Maximum ratings, at T_j = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MUR5005 (R)	MUR5010 (R)	MUR5020 (R)	Unit
Repetitive peak reverse voltage	V _{RRM}		50	100	200	V
RMS reverse voltage	V _{RMS}		35	70	140	V
DC blocking voltage	V _{DC}		50	100	200	V
Continuous forward current	I _F	T _C ≤ 125 °C	50	50	50	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	600	600	600	A
Operating temperature	T _j		-65 to 175	-65 to 175	-65 to 175	°C
Storage temperature	T _{stg}		-65 to 175	-65 to 175	-65 to 175	°C

Electrical characteristics, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MUR5005 (R)	MUR5010 (R)	MUR5020 (R)	Unit
Diode forward voltage	V _F	I _F = 50 A, T _j = 25 °C	1	1	1	V
Reverse current	I _R	V _R = 50 V, T _j = 25 °C	10	10	10	µA
Recovery Time						
Maximum reverse recovery time	T _{RR}	I _F =0.5 A, I _R =1.0 A, I _{RR} = 0.25 A	75	75	75	nS

