

MURF10005 thru MURF10020R

TO-244 Package

Silicon Super Fast Recovery Diode

 $V_{RRM} = 50 \text{ V} - 200 \text{ V}$ $I_{F(AV)} = 100 \text{ A}$

Features

- High Surge Capability
- \bullet Types from 50 V to 200 V V_{RRM}
- Not ESD Sensitive

LUG LUG Teminal Teminal Anode 1 Anode 2 Cathode 1 Cathode 2 Baseplate Baseplate LUG LUG Teminal Teminal Cathode 2 REACH COMPLIANT

R=Common Anode

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

Common Cathode

Parameter	Symbol	Conditions	MURF10005(R)	MURF10010(R)	MURF10020(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
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	°C

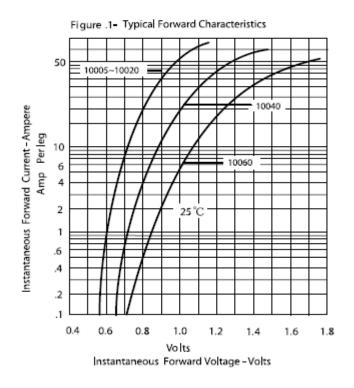
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

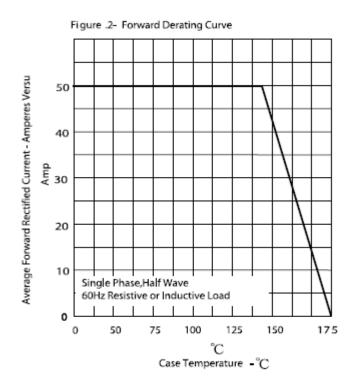
Parameter	Symbol	Conditions	MURF10005(R)	MURF10010(R)	MURF10020(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T _C = 140 °C	100	100	100	Α
Peak forward surge current (per leg)	I _{FSM}	t_p = 8.3 ms, half sine	1500	1500	1500	Α
Maximum instantaneous forward voltage (per leg)	V _F	I _{FM} = 50 A, T _j = 25 °C	1.0	1.0	1.0	V
Maximum reverse current at		T _j = 25 °C	25	25	25	μΑ
rated DC blocking voltage (per leg)	I _R	T _j = 125 °C	3	3	3	mA
Maximum reverse recovery time (per leg)	T _{rr}	I _F =0.5 A, I _R =1.0 A, I _{RR} = 0.25 A	75	75	75	nS
Thermal characteristics						
Maximum thermal resistance, junction - case (per leg)	R_{oJC}		1.00	1.00	1.00	°C/W

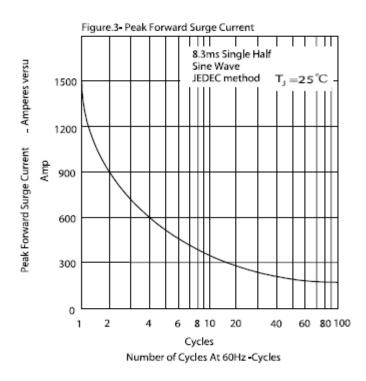


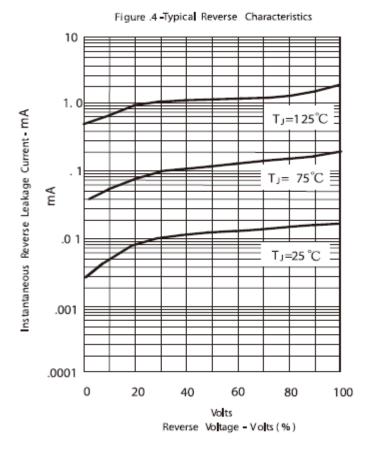


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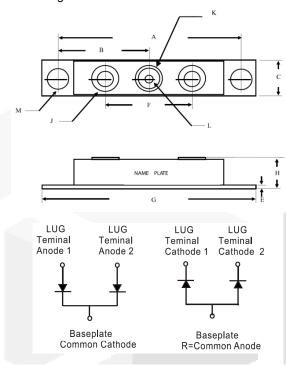




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Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM .	Inc	hes	Millimeters					
	Min	Max	Min	Max				
А	3.144	NOM	79.85	NOM				
В	1.565	1.585	39.75	40.26				
С	0.700	0.800	17.78	20.32				
Е	0.119	0.14	3.02	3.50				
F	1.358	REF.	34.50	REF.				
G	3.55	3.65	90.17	92.71				
Н	0.604	0.65	15.35	16.51				
J		1/4-20 UNC FULL						
K	0.380	0.410	9.65	10.41				
L	0.185	0.195	4.70	4.95				
М	0.275	0.295	6.99	7.49				

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