MURH10040 thru MURH10060R

Silicon Super Fast Recovery Diode

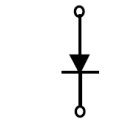
V_{RRM} = 400 V - 600 V

$I_{F(AV)}$ = 100 A

Features

- High Surge Capability
- Types from 400 V to 600 V V_{RRM}
- Not ESD Sensitive

D-67 Package



Baseplate
Common Cathode

Baseplate
R=Common Anode

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

Parameter	Symbol	Conditions	MURH10040(R)	MURH10060(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		400	600	V
RMS reverse voltage	V_{RMS}		280	420	V
DC blocking voltage	V_{DC}		400	600	V
Operating temperature	T_j		-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	MURH10040(R)	MURH10060(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T_C = 140 °C	100	100	A
Peak forward surge current	I_{FSM}	t_p = 8.3 ms, half sine	2000	2000	A
Maximum instantaneous forward voltage	V_F	I_{FM} = 100 A, T_j = 25 °C	1.30	1.70	V
Maximum reverse current at rated DC blocking voltage	I_R	T_j = 25 °C T_j = 125 °C	25 3	25 3	µA mA
Maximum reverse recovery time	T_{rr}	I_F=0.5 A, I_R=1.0 A, I_{RR}= 0.25 A	90	110	nS
Thermal characteristics					
Maximum thermal resistance, junction - case	$R_{\Theta JC}$		0.45	0.45	°C/W

Figure .1- Typical Forward Characteristics

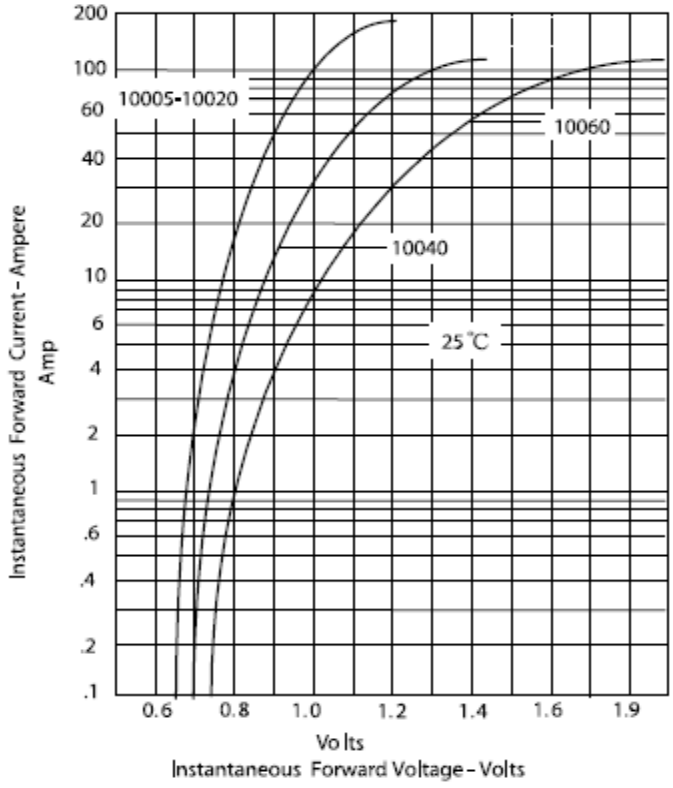


Figure .2- Forward Derating Curve

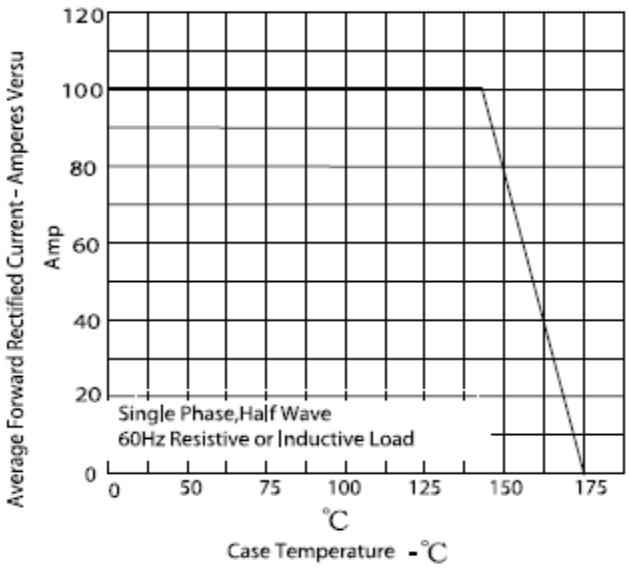


Figure.3- Peak Forward Surge Current

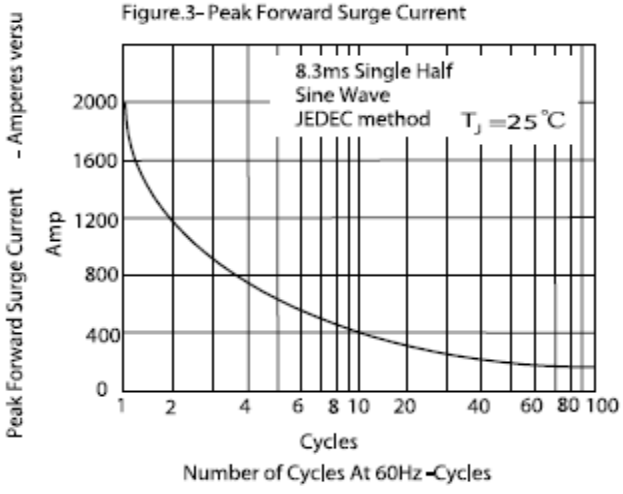
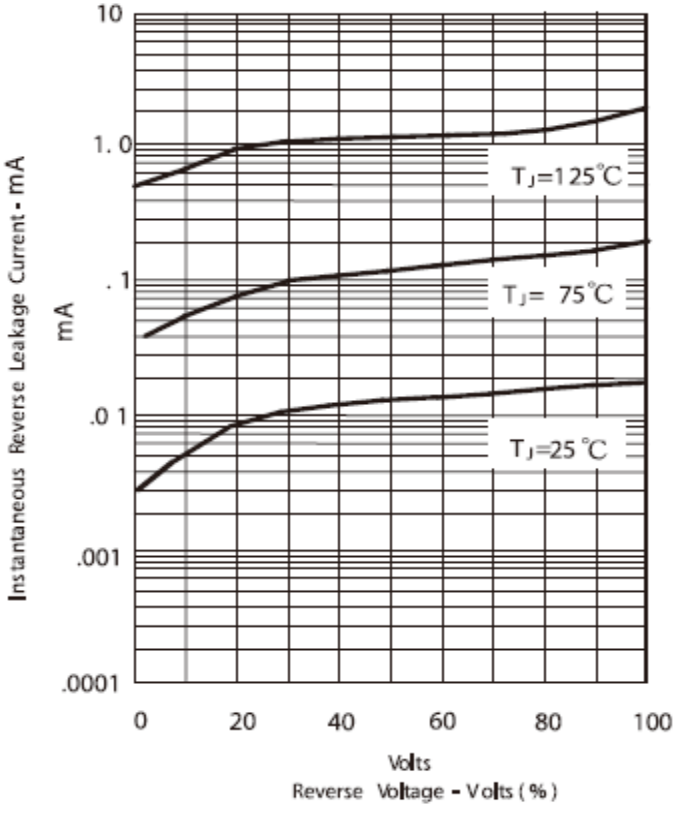
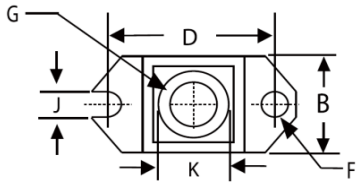


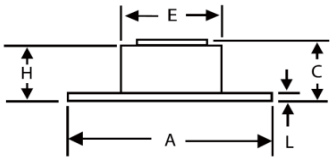
Figure .4 -Typical Reverse Characteristics

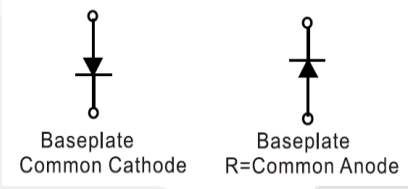


Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.







DIMENSIONS					
	INCHES		MM		NOTE
DIM	MIN	MAX	MIN	MAX	
A	1.515	1.560	38.48	39.62	
B	.725	.775	18.42	19.69	
C	.595	.625	15.11	15.88	
D	1.182	1.192	30.02	30.28	
E	.736	.744	18.70	18.90	
F	.152	.160	3.86	4.061	Ø
G	1/4 - 20 UNC				
H	.540	.580	13.72	14.73	
J	.156	.160	3.96	4.06	
K	.480	.492	12.20	12.50	Ø
L	.120	.130	3.05	3.30	

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