

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# MURTA30020 thru MURTA30040R

**Heavy Three Tower Package** 

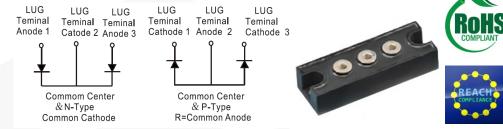
# Silicon Super Fast Recovery Diode

 $V_{RRM} = 200 V - 400 V$ 

 $I_{F(AV)} = 300 A$ 

#### **Features**

- · High Surge Capability
- $\bullet$  Types from 200 V to 400 V  $V_{\text{RRM}}$
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive



#### Maximum ratings, at T<sub>i</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MURTA30020(R)	MURTA30040(R)	Unit
Repetitive peak reverse voltage	$V_{RRM}$		200	400	V
RMS reverse voltage	$V_{RMS}$		141	283	V
DC blocking voltage	$V_{DC}$		200	400	V
Operating temperature	Tj		-55 to 150	-55 to 150	°C
Storage temperature	T <sub>stg</sub>		-55 to 150	-55 to 150	°C

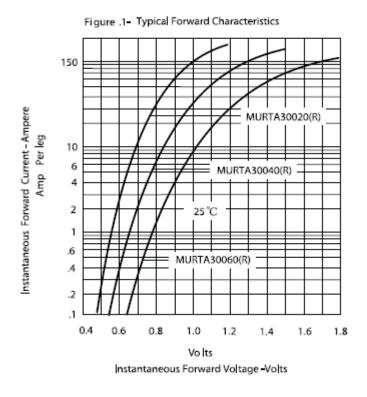
#### Electrical characteristics, at Tj = 25 °C, unless otherwise specified

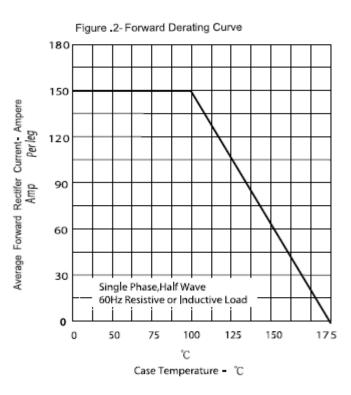
Parameter	Symbol	Conditions	MURTA30020(R)	MURTA30040(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T <sub>C</sub> = 100 °C	300	300	Α
Peak forward surge current (per leg)	I <sub>FSM</sub>	$t_p$ = 8.3 ms, half sine	2750	2750	Α
Maximum instantaneous forward voltage (per leg)	$V_{F}$	I <sub>FM</sub> = 150 A, T <sub>j</sub> = 25 °C	1.0	1.3	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I <sub>R</sub>	T <sub>j</sub> = 25 °C	25	25	μA
		T <sub>j</sub> = 125 °C	5	5	mA
Maximum reverse recovery time (per leg)	T <sub>rr</sub>	I <sub>F</sub> =0.5 A, I <sub>R</sub> =1.0 A, I <sub>RR</sub> = 0.25 A	130	130	ns
Thermal characteristics					
Maximum thermal resistance, junction case (per leg)	R <sub>eJC</sub>		0.40	0.40	°C/W

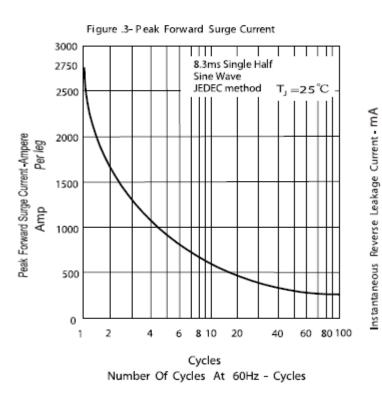


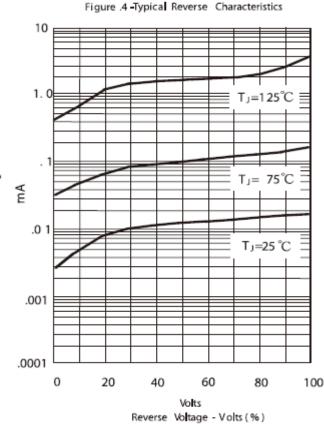


# MURTA30020 thru MURTA30040R





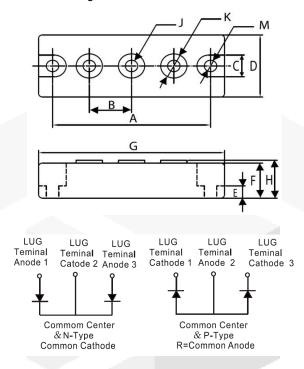




# MURTA30020 thru MURTA30040R

### Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIMENSIONS								
DIM	Inc	hes	Millimeters					
	Min	Max	Min	Max				
Α	3.150	NOM	80.01	NOM				
В	.872	.892	22.15	22.65				
С	.465	.479	11.82	12.18				
D	1.337	1.356	33.95	34.45				
E	.230	.234	5.84	6.16				
F	.725	REF	18.42	REF				
G	3.668	3.768	93.17	95.71				
Н	_	.791	_	20.10				
J	1/4-20 UNC FULL							
K	.509	.538	12.92	13.68				
М	.238	.258	6.05	6.55				