

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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MSRTA500120(A) thru MSRTA500160(A)

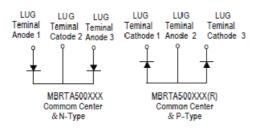
Silicon Standard Recovery Diode

 $V_{RRM} = 600 \text{ V} - 1600 \text{ V}$ $I_F = 500 \text{ A}$

Features

- High Surge Capability
- Types up to 1600 V V_{RRM}

Heavy Three Tower Package





Maximum ratings, at $T_i = 25$ °C, unless otherwise specified

Parameter	Symbol	Conditions	MSRTA500120(A)	MSRTA500140(A)	MSRTA500160(A)	Unit
Repetitive peak reverse voltage	V_{RRM}		1200	1400	1600	V
RMS reverse voltage	V_{RMS}		848	990	1131	V
DC blocking voltage	V_{DC}		1200	1400	1600	V
Continuous forward current	I _F	T _C ≤ 125 °C	500	500	500	Α
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	$T_C = 25 ^{\circ}\text{C}, t_p = 8.3 \text{ms}$	4400	4400	4400	Α
Operating temperature	T _j		-40 to 175	-40 to 175	-40 to 175	°C
Storage temperature	T _{stg}		-40 to 175	-40 to 175	-40 to 175	°C

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

Parameter	Symbol	Conditions	MSRTA500120(A)	MSRTA500140(A)	MSRTA500160(A)	Unit
Diode forward voltage	V_{F}	$I_F = 500 \text{ A}, T_j = 25 ^{\circ}\text{C}$	1.2	1.2	1.2	V
Reverse current		$V_R = 600 \text{ V}, T_j = 25 ^{\circ}\text{C}$	25	25	25	μA
	^I R	$V_R = 600 \text{ V}, T_j = 150 ^{\circ}\text{C}$	10	10	10	mA
Thermal characteristics						
Thermal resistance, junction -	R_{thJC}		0.12	0.12	0.12	°C/W
case	thJC					





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