

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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FR20A02 thru FR20JR02

Silicon Fast Recovery Diode

 $V_{RRM} = 50 \text{ V} - 600 \text{ V}$ $I_F = 20 \text{ A}$

Features

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

DO-5 Package



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

Parameter	Symbol	Conditions	FR20A(R)02	PR20B(R)02	FR20D(R)02	PR20G(R)02	FR20J(R)02	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	600	V
RMS reverse voltage	V_{RMS}		35	70	140	280	420	V
DC blocking voltage	V_{DC}		50	100	200	400	600	V
Continuous forward current	I_{F}	T _C ≤ 100 °C	20	20	20	20	20	Α
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	$T_C = 25 ^{\circ}\text{C}, t_p = 8.3 \text{ms}$	250	250	250	250	250	Α
Operating temperature	Tj		-40 to 125	°C				
Storage temperature	T _{stg}		-40 to 150	°C				

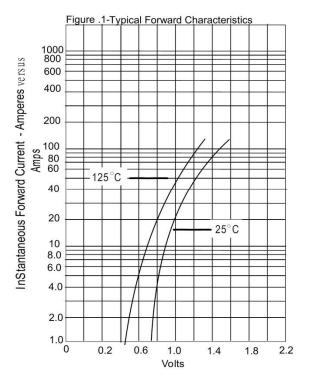
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	FR20A(R)02	2 FR20B(R)02	FR20D(R)02	FR20G(R)02	FR20J(R)02	Unit
Diode forward voltage	V_{F}	I _F = 20 A, T _j = 25 °C	1.4	1.4	1.4	1.4	1.4	V
Reverse current	I _R	$V_R = 50 \text{ V}, T_j = 25 ^{\circ}\text{C}$	25	25	25	25	25	μA
		$V_R = 50 \text{ V}, T_j = 150 ^{\circ}\text{C}$	10	10	10	10	10	mΑ
Recovery Time								
Maximum reverse recovery time	T_RR	I _F =0.5 A, I _R =1.0 A, I _{RR} = 0.25 A	200	200	200	200	250	nS
Thermal characteristics								
Thermal resistance, junction - case	R_{thJC}		0.6	0.6	0.6	0.6	0.6	°C/W

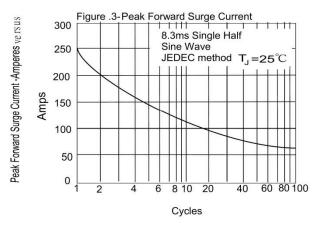




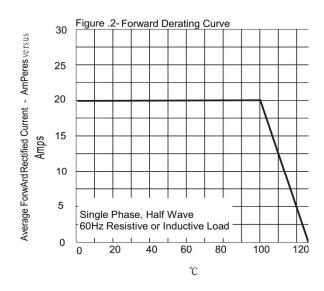
FR20A02 thru FR20JR02



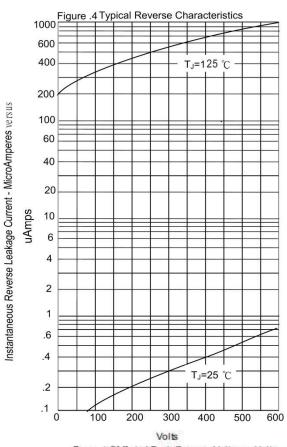
Instantaneous Forward Voltage - Volts



Number Of Cycles At 60Hz - Cycles



Case Temperature - ${}^{\circ}\!\mathbb{C}$



Percent Of Rated Peak Reverse Voltage - Volts