

Low-loss Fast Recovery Diodes(LLD) Single

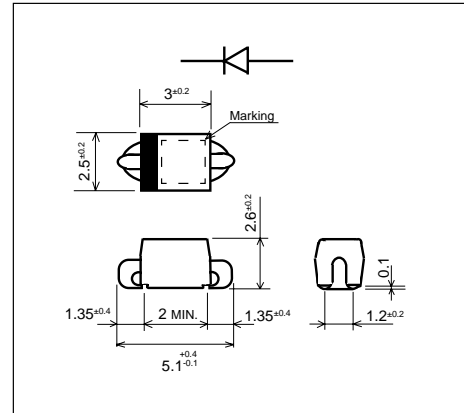
Device Type	Features	Page	VRRM	IF	Package
CB903-4	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	400V max	1.0A max	Lead-3
CB903-4S	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	400V max	2.0A max	LEAD-3
ERA91-02	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	200V max	0.5A max	Lead-1
ERA92-02	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	200V max	1.0A max	Lead-1
ERB91-02	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	200V max	1.0A max	Lead-3
ERB93-02	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	200V max	1.5A max	Lead-6
ERC90-02	LOW LOSS SUPER HIGH SPEED RECTIFIER	3	200V max	5A max	TO-220AB(JEDEC)/SC-46(EIAJ)
ERC91-02	LOW LOSS SUPER HIGH SPEED RECTIFIER	2	200V max	3.0A max	Lead-7
KS926S2	LOW LOSS SUPER HIGH SPEED RECTIFIER	3	200V max	5.0A max	K-pack(S)
SC902-2	LOW LOSS SUPER HIGH SPEED RECTIFIER	3	200V max	1.0A max	SC
YG911S2R	LOW LOSS SUPER HIGH SPEED DIODE	3	200V max	5A max	TO-220F15(FE)/SC-67 (EIAJ)
YG911S3R	LOW LOSS SUPER HIGH SPEED DIODE	3	300V max	5A max	TO-220F15(FE)/SC-67 (EIAJ)
YG912S2R	LOW LOSS SUPER HIGH SPEED DIODE	3	200V max	10A max	TO-220F15(FE)/SC-67 (EIAJ)
YG912S6	SCHOTTKY BARRIER DIODE (600V/10A)	3	600V max	10A max	TO-220F15

SC902-2 (1.0A)

(200V / 1.0A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

Outline drawings, mm



Features

- Surface-mount device
Low VF
- Super high speed switching
- High reliability by planer design

Applications

- High speed switching

Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		200	V
Non-repetitive peak reverse voltage	V_{RSM}		200	V
Average output current	I_o	duty=1/2, $T_a=25^\circ\text{C}$ Square wave	1.0	A
Surge current	I_{FSM}	Sine wave 10ms $T_j=150^\circ\text{C}$	25	A
Operating junction temperature	T_j		-40 to +150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

* Mounted to glass fabric base epoxy resin printed circuits

- Electrical characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=1.0\text{A}$	1.05	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	50	μA
Reverse recovery time	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.2\text{A}$, $I_{rec}=0.05\text{A}$	35	ns
Thermal resistance	$R_{th(j-a)}$	Junction to ambient	120*	$^\circ\text{C/W}$

Marking

