SR320 THRU SR3200

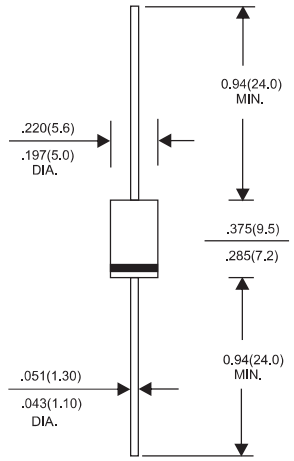
3.0A Axial Leaded Schottky Barrier Rectifiers - 20V-200V

Features

- Axial lead type devices for through hole design
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Guardring for overvoltage protection.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228
- Suffix"-H" for Halogen-free part, ex.SR320-H

Package outline

DO-201AD



Dimensions in inches and (millimeters)

Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, DO-201AD
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS		Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1		I_O			3.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)		I_{FSM}			80	A
Reverse current	T_J = 25°C	V_R = 20V - 60V	I_R			0.5	mA
		V_R = 80V - 200V				0.1	
Reverse current	T_J =100 °C	V_R = 20V - 60V	I_R			30	mA
		V_R = 80V - 200V				5	
Thermal resistance	Junction to ambient Junction to lead		$R_{\theta JA}$ $R_{\theta JL}$		40 10		°C/W °C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage		C_J		250		pF
Storage temperature			T_{STG}	-65		+175	°C

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
SR320	20	14	20	0.55	-55 to +125
SR340	40	28	40		
SR345	45	32	45		
SR350	50	35	50	0.70	-55 to +150
SR360	60	42	60		
SR380	80	56	80	0.85	
SR3100	100	70	100		
SR3150	150	105	150	0.92	
SR3200	200	140	200		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@I_F=3.0A

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SR320 THRU SR3200

3.0A Axial Leaded Schottky Barrier Rectifiers - 20V-200V

Rating and characteristic curves (SR320 THRU SR3200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

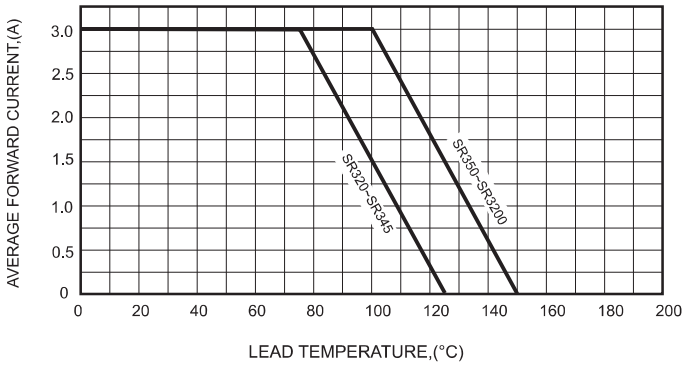


FIG.2-TYPICAL FORWARD CHARACTERISTICS

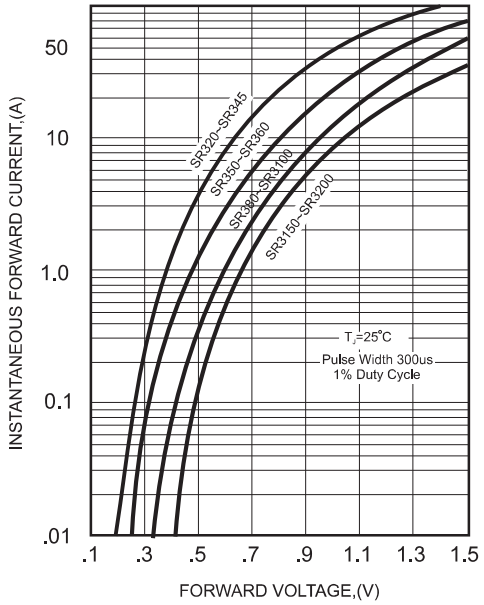


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

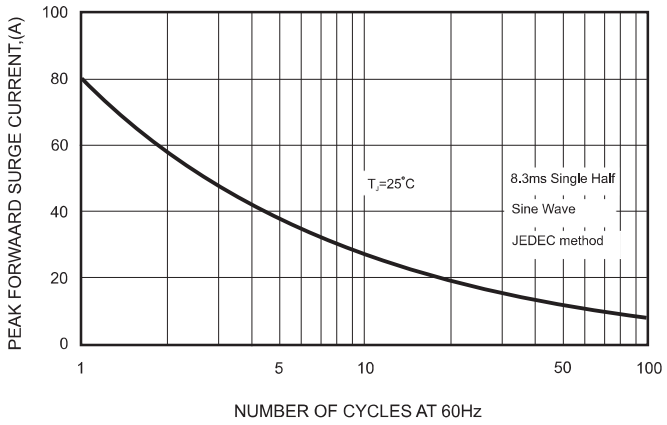


FIG.4-TYPICAL JUNCTION CAPACITANCE

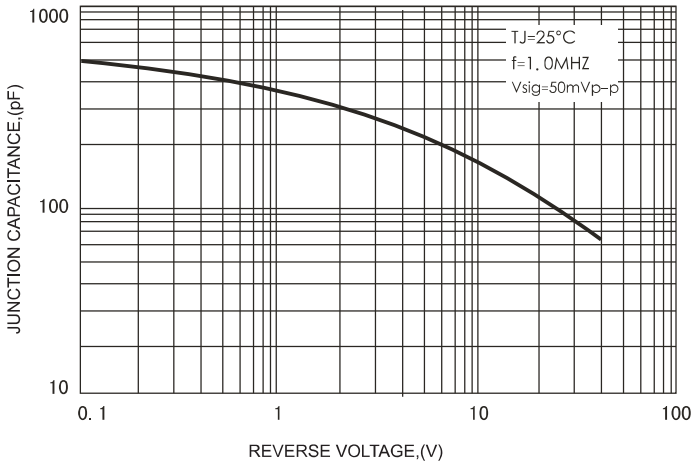
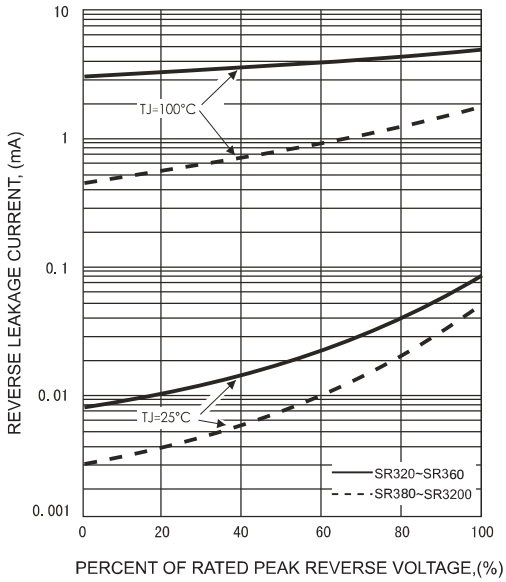


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



SR320 THRU SR3200

3.0A Axial Leaded Schottky Barrier Rectifiers - 20V-200V

Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
SR320	SR320
SR330	SR330
SR340	SR340
SR350	SR350
SR360	SR360
SR380	SR380
SR3100	SR3100
SR3150	SR3150
SR3200	SR3200