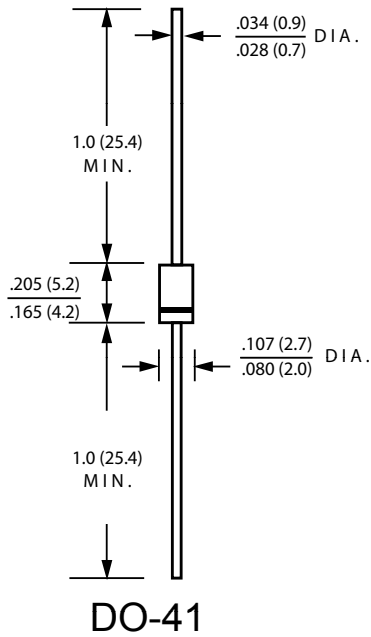




# SR220S thru SR2200S



## Schottky Barrier Rectifiers



Dimensions in inches and (millimeters)



### Ordering Information

Part Number	Remark
SR2xxS	General
SR2xxS-H	Halogen Free
SR2xxS-Q	Automotive

### PRIMARY CHARACTERISTICS

$I_F$	2A
$V_{RRM}$	20~200V
$I_{FSM}$	50A
$V_F$	0.50V, 0.70V, 0.85V, 0.87V, 0.90V
$T_J \text{ max}$	125°C, 150°C

### Features

- Guardring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC
- AEC-Q101 qualified

### Mechanical Data

- Cases: DO-41
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish)  
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.318 grams (approximate)

### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SR 220S	SR 230S	SR 240S	SR 250S	SR 260S	SR 280S	SR 2100S	SR 2150S	SR 2200S	UNIT	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	$I_F$	2.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50.0									A	
Maximum Instantaneous Forward Voltage IF=2A @ 25°C	$V_F$	0.50		0.70		0.85		0.87		0.90	V	
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	$I_R$	0.5 15				0.2 5.0					mA	
Typical Junction Capacitance(NOTE1)	$C_j$	150			120		100				pF	
Typical Thermal Resistance	$R_{\theta Ja}$ $R_{\theta Jc}$	70 30										°C/W
Operating Temperature Range	$T_J$	-55 to +125						-55 to +150				°C
Storage Temperature Range	$T_{STG}$	-55 to +150									°C	

NOTES:1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC



FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

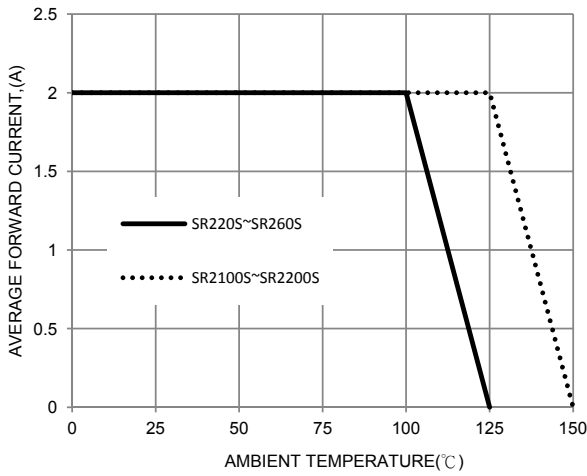


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

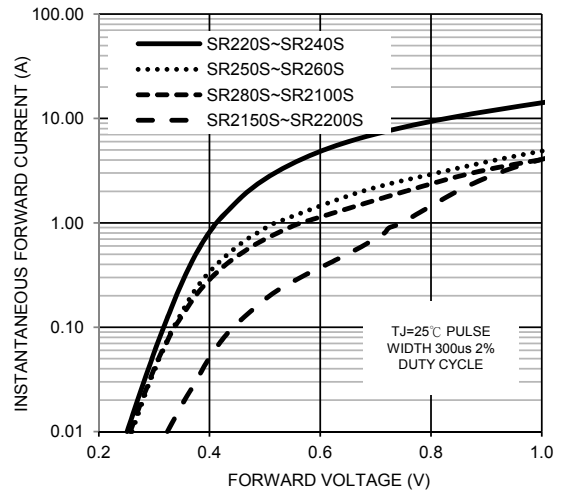


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

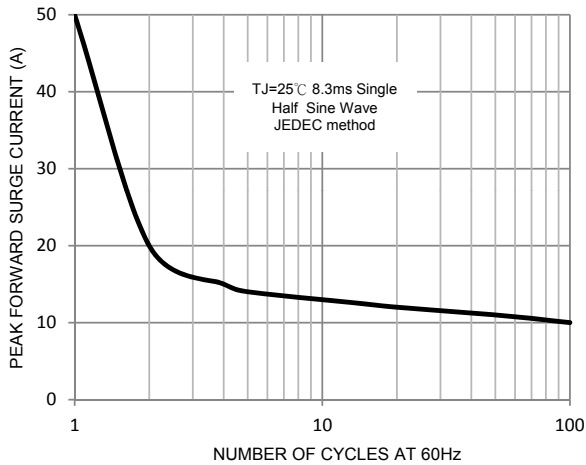


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

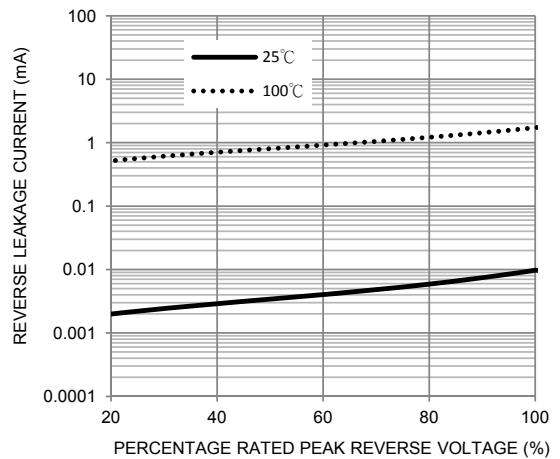


FIG. 5-TYPICAL JUNCTION CAPACITANCE

