Elektronische Bauelemente

SR860S

VOLTAGE 60 V

8.0 Amp Schottky Barrier Rectifiers

RoHS compliant product

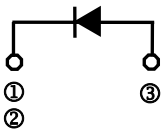
A suffix of "-C" specifies halogen free

FEATURES

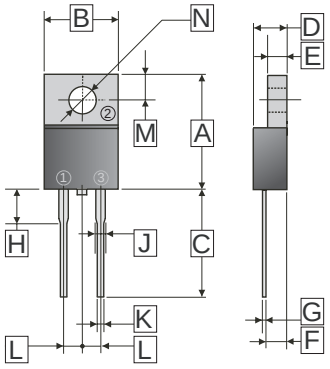
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.933 grams (Approximately)



TO-220A



Dimensions in millimeters

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.6	15.50	H	3.57	4.03
B	9.7	10.40	J	-	1.30
C	13.06	14.62	K	0.72	0.96
D	4.22	4.98	L	4.84	5.32
E	1.14	1.38	M	2.48	2.98
F	2.20	2.98	N	ϕ3.7	ϕ3.9
G	0.27	0.55			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RSM}	60	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current See Fig. 1	I_F	8	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	160	A
Maximum Instantaneous Forward Voltage (I_F = 8 Amps)	V_F	0.65	V
Maximum DC Reverse Current at Rated DC T_A = 25°C Blocking Voltage(Note 3) T_A = 100°C	I_R	0.3 15	mA mA
Typical Junction Capacitance (Note 1)	C_J	260	pF
Typical Thermal Resistance $R_{\theta JC}$ (Note 2)	$R_{\theta JC}$	4.5	°C /W
Voltage rate of change (rated VR)	dV/dt	10000	V/uS
Operating Temperature Range T_J	T_J	-50 ~ +150	°C
Storage Temperature Range T_{STG}	T_{STG}	-65 ~ +175	°C

NOTES:
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse test:300us pulse width, 1% duty cycle.

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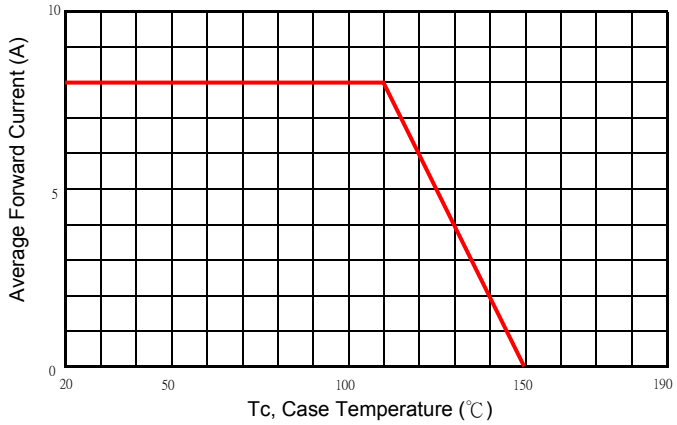
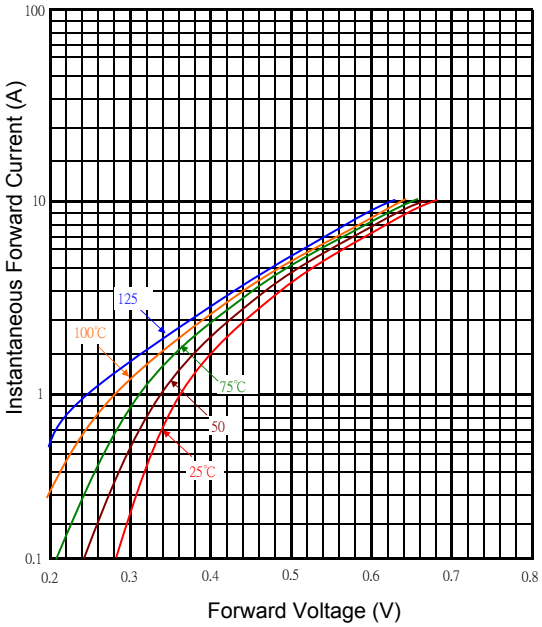
RATINGS AND CHARACTERISTIC CURVES

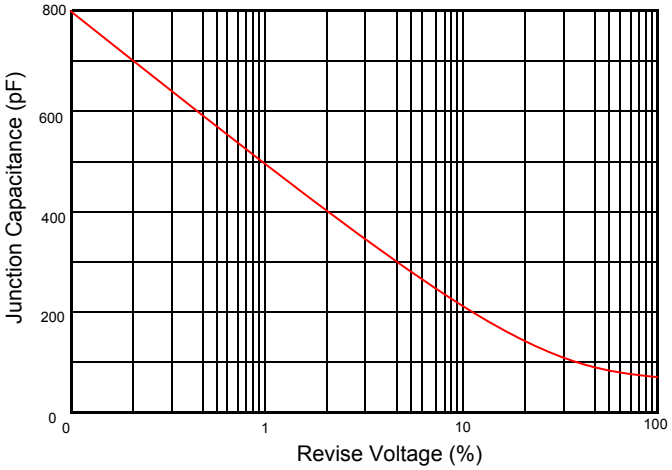
Typical Forward Current Derating Curve



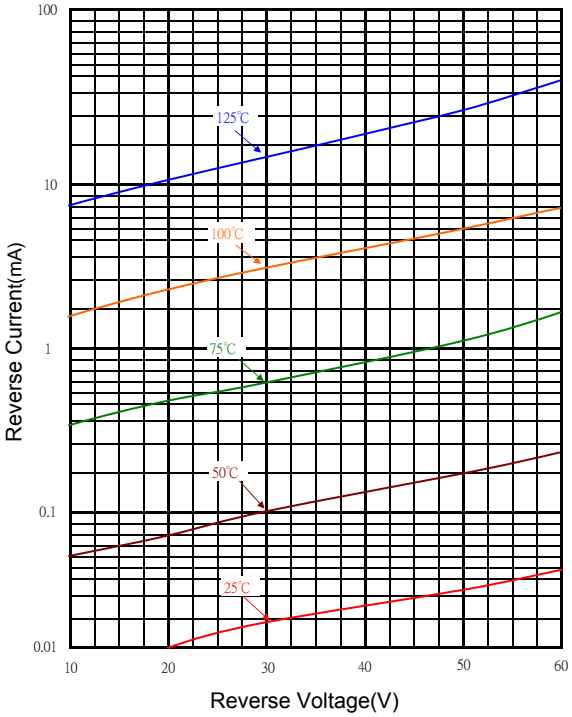
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current