20.0 AMP LOW VF SCHOTTKY BARRIER RECTIFIERS

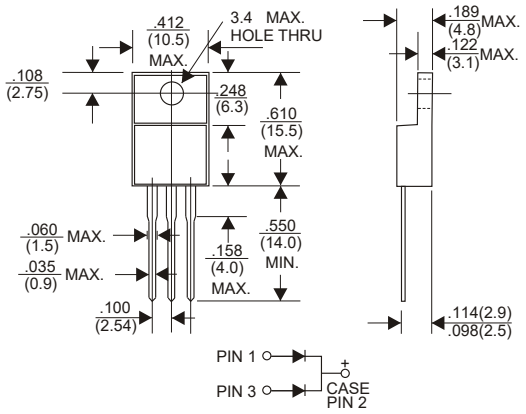
Features:

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

Mechanical Data:

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Lead solderable per MIL-STD-202, method 208 guranteed
* Polarity: As Marked
* Mounting position: Any

ITO-220(FULLY INSULATED)



Dimensions in inches and (millimeters)

TYPE NUMBER	KSRF 2020LCT	KSRF 2030LCT	KSRF 2040LCT	KSRF 2050LCT	KSRF 2060LCT	KSRF 2080LCT	KSRF 20100LCT	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current at Tc=95°C	20.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	240							A
Maximum Instantaneous Forward Voltage per Leg at 10A	0.42			0.47		0.65		V
Maximum DC Reverse Current Ta=25 C	0.2							mA
at Rated DC Blocking Voltage Ta=100 °C	20							mA
Typical Junction Capacitance (Note1)	1300							pF
Typical Thermal Resistance $R_{\theta JC}$ (Note 2)	2.0							°C/W
Operating Temperature Range T_J	-65 — +150							°C
Storage Temperature Range 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.

RATING AND CHARACTERISTIC CURVES (KSRF2020LCT THRU KSRF20100LCT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

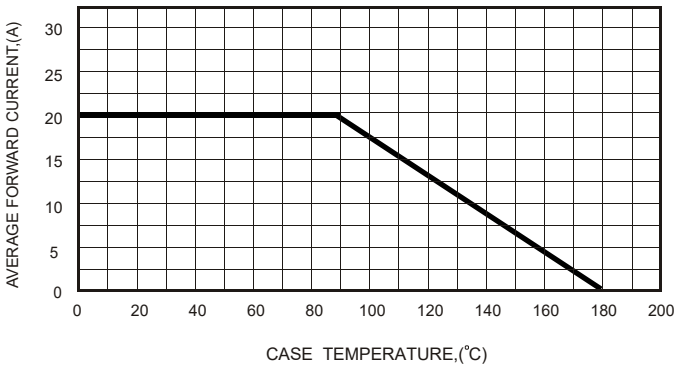


FIG.2-TYPICAL FORWARD CHARACTERISTICS

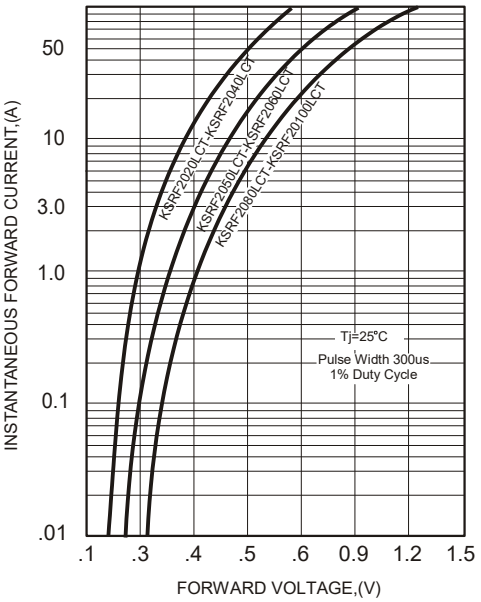


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

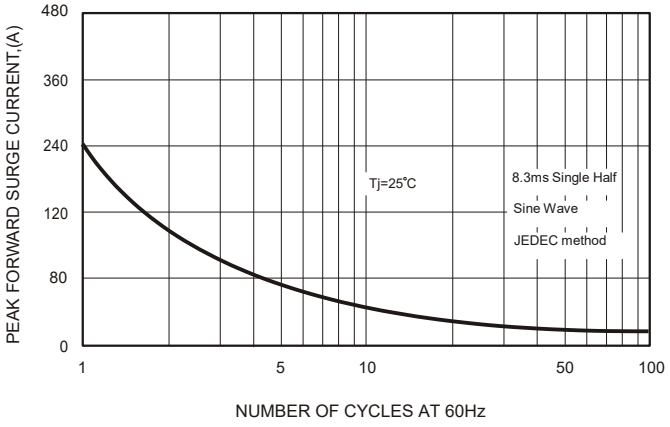


FIG.4-TYPICAL JUNCTION CAPACITANCE

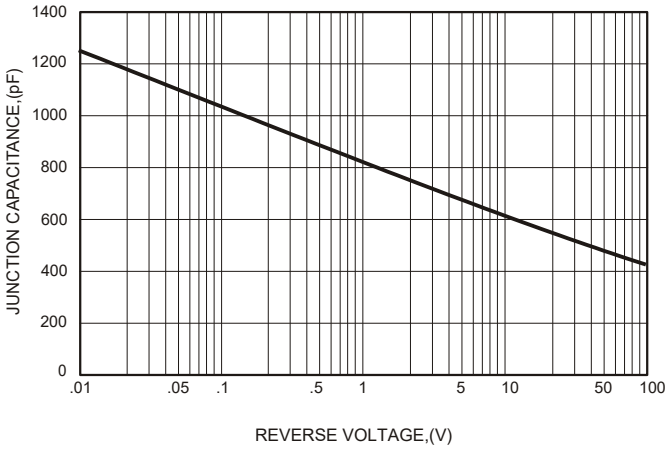


FIG.5 - TYPICAL REVERSE CHARACTERISTICS