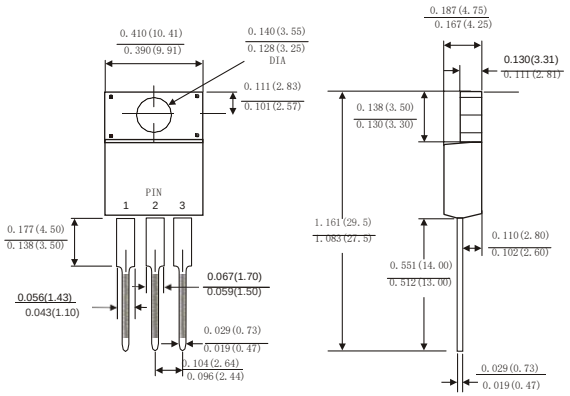
SCHOTTKY BARRIER RECTIFIER

Features:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters,
- free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260℃/10 seconds,
- 0.25"(6.35mm)from case
  Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

ITO-220AB



Dimensions in inches and (millimeters)

Mechanical Data:

- *Case*: JEDEC ITO-220AB molded plastic body
- *Terminals*: Lead solderable per MIL-STD-750,method 2026
- *Polarity*: As marked
- *Mounting Position*: Any
- *Weight*:0.08ounce, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25℃ ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

		Symbols	KSRF 4030CT	KSRF 4035CT	KSRF 4040CT	KSRF 4045CT	KSRF 4050CT	KSRF 4060CT	KSRF 40100CT	KSRF 40150CT	KSRF 40200CT	Units
Maximum repetitive peak reverse voltage		V_{RRM}	30	35	40	45	50	60	100	150	200	Volts
Maximum RMS voltage		V_{RMS}	21	25	28	32	35	42	70	105	140	Volts
Maximum DC blocking voltage		V_{DC}	30	35	40	45	50	60	100	150	200	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	$I_{(AV)}$	20.0									Amps
	Total device		40.0									
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	300.0									Amps
Maximum instantaneous forward voltage at 40.0 A		V_F	0.60				0.75		0.80	0. 95		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T_c=25℃	I_R	0.2									mA
	T_c=125℃		30				30					
Typical thermal resistance (Note 2)		$R_{\theta JC}$	3.0									˚C/W
Operating junction temperature range		T_J	-65 to+150									˚C
Storage temperature range		T_{STG}	-65 to+150									˚C

Notes: 1.Pulse test: 300 μ s pulse width,1% duty cycle
2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES KSRF4030CT THRU KSRF40200CT

FIG.1-FORWARD CURRENT DERATING CURVE

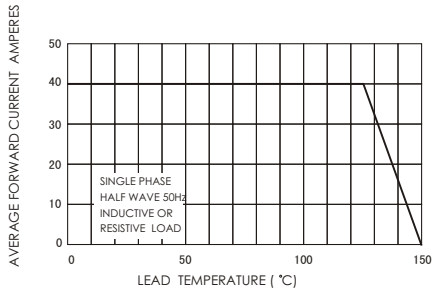


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

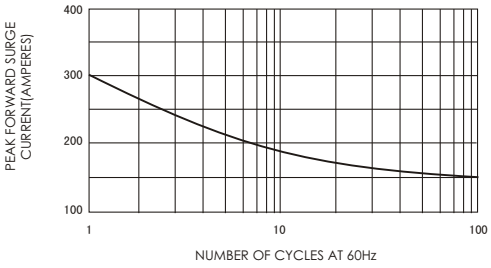


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

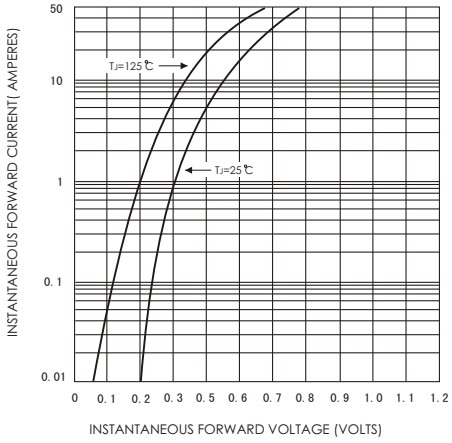


FIG.4-TYPICAL REVERSE CHARACTERISTICS

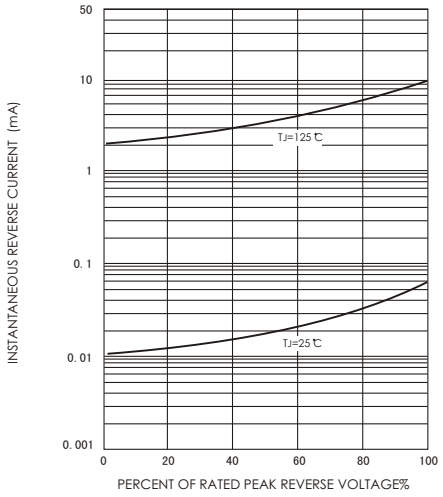


FIG.5-TYPICAL JUNCTION CAPACITANCE

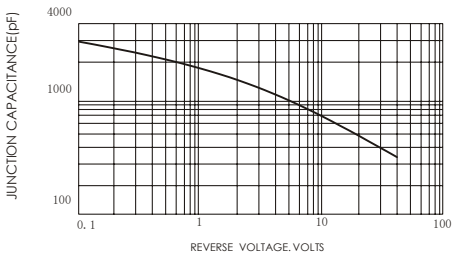


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE