

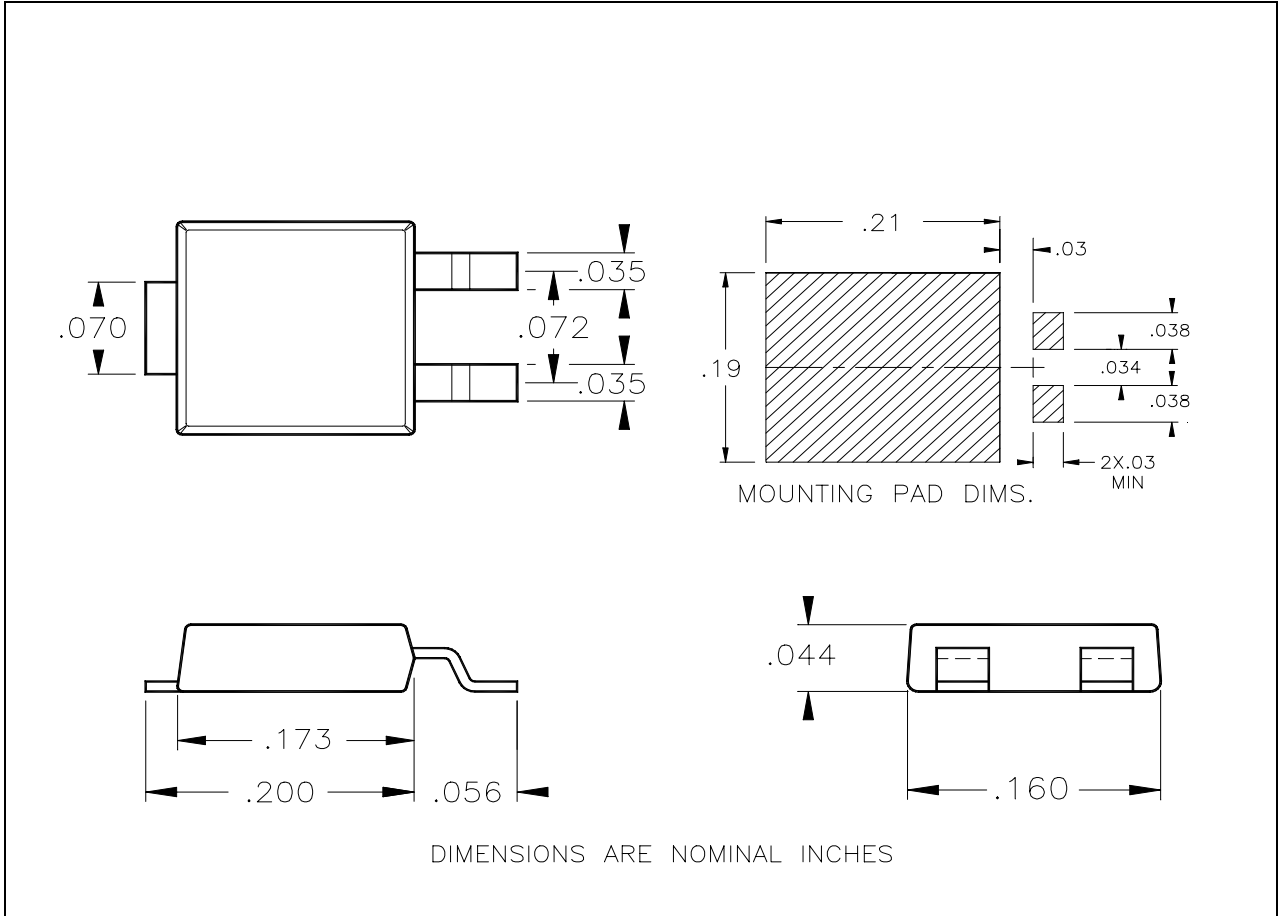


# PRELIMINARY

## Electrical Characteristics at 25°C

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)						
Symbol	Parameter	Conditions	Min	Typ	Max	Units
<b>OFF CHARACTERISTICS</b>						
BVKSS	Cathode-Source Breakdown Voltage	VGS = 0V; IK = 250uA	20			V
IKSSF	Zero Gate Voltage Cathode Current: Forward	VKS = -16V, VGS = 0V			1	uA
IKSSR	Zero Gate Voltage Cathode Current: Reverse	VKS = +16V, VGS = 0V			1	mA
IGSS	Gate-Body Leakage Current	VGS = +/- 8V, VKS = 0V			100	nA
<b>ON CHARACTERISTICS (pulsed 500us max, duty cycle &lt; 2%)</b>						
VGS(TH)	Gate Threshold Voltage	VKS ≥ VGS; IK = 250uA	1	1.9	3	V
DELTA VGS(TH)/TJ	Gate Threshold Voltage Temp Coefficient	IK = 250uA, Reference to 25°C		3.5		mV/°C
VKS (ON)	Static Cathode-Source On Voltage	VGS = 4.5 V; IK = 1A			750	mV
VKS (ON)	Static Cathode-Source On Voltage	VGS = 4.5 ; IK = 0.5A			550	mV
IK(ON)	On State Cathode Current	VGS = 4.5 V; VKS = 5V	3			A
Gfs	Forward Transconductance	VDS = 5V; IK = 0.5A		3		S
<b>DYNAMIC CHARACTERISTICS</b>						
Ciss	Input Capacitance	VKS = 15 V; VGS = 0V, F = 1MHz		165		pF
Coss	Output Capacitance	VKS = 15 V; VGS = 0V, F = 1MHz		60		pF
Crss	Reverse Transfer Capacitance	VKS = 15 V; VGS = 0V, F = 1MHz		25		pF
<b>SWITCHING CHARACTERISTICS</b>						
Td(ON)	Turn On Delay Time	VDD = 15V, IK = 1A, VGS = 10V, Rg = 6 Ω		8	20	ns
Tr	Turn On Rise Time	VDD = 15V, IK = 1A, VGS = 10V, Rg = 6 Ω		9	20	ns
Td(OFF)	Turn Off Delay time	VDD = 15V, IK = 1A, VGS = 10V, Rg = 6 Ω		14	30	ns
Tf	Turn Off Fall time	VDD = 15V, IK = 1A, VGS = 10V, Rg = 6 Ω		2	10	ns
Qg	Total Gate Charge	VDS = 15V, IK = 1A, VGS = 10V		3.5	5	nC
Qgs	Gate-Source Charge	VDS = 15V, IK = 1A, VGS = 10V		0.6		nC
Qgd	Gate-Cathode Charge	VDS = 15V, IK = 1A, VGS = 10V		0.8		nC

# PRELIMINARY



## MECHANICAL SPECIFICATIONS