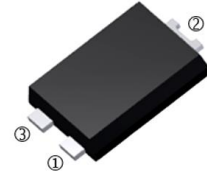


RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

FEATURES

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Low Power Loss And High Efficiency
- Excellent High Temperature Stability
- Plastic Material-UL Flammability 94V-0

TO-277D

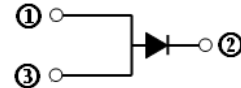


PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-277D	5K	13 inch

ORDER INFORMATION

Part Number	Type
SMPD15200L-C	Lead (Pb)-free and Halogen-free



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, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RSM}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	I_F	15	A
Peak Forward Surge Current, 8.3ms single half sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	250	A
Voltage Rate of Change (Rated V_R)	dv/dt	10000	V/ μ S
Typical Thermal Resistance	$R_{\theta JA}$	80	°C/W
Typical Thermal Resistance	$R_{\theta JL}$	3.5	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-40~150	°C

ELECTRICAL CHARACTERISTICS

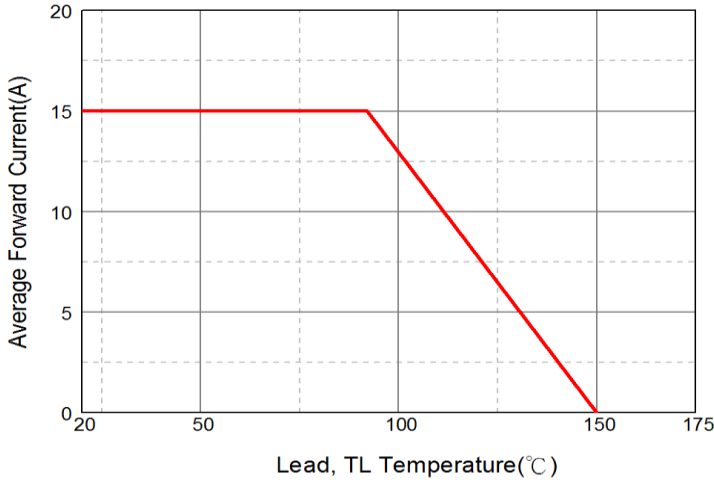
Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V_F	0.67	-	V	$I_F=3A, T_J=25^\circ C$
		0.81	0.85		$I_F=10A, T_J=25^\circ C$
		0.9	1.1		$I_F=15A, T_J=25^\circ C$
		0.73	-		$I_F=15A, T_J=125^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	I_R	-	0.2	mA	$T_J=25^\circ C$
		-	20		$T_J=100^\circ C$
Typical Junction Capacitance ¹	C_J	310	-	pF	

Notes:

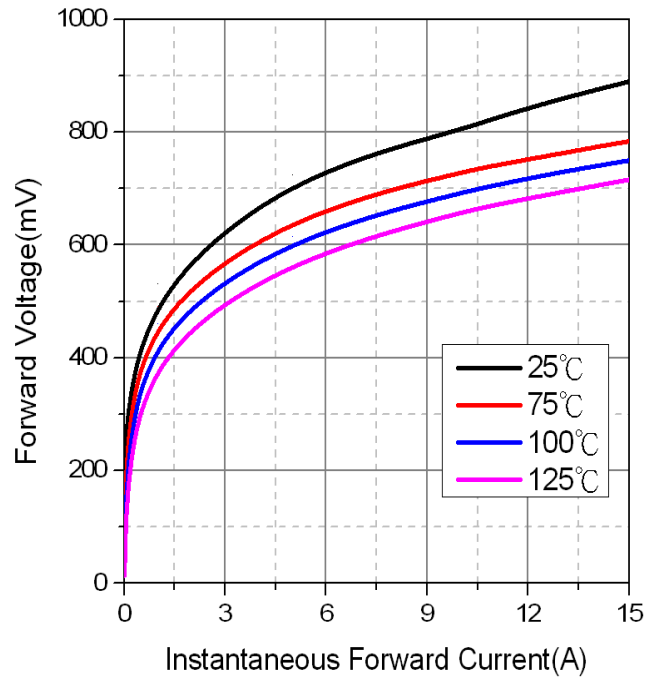
1. Measured at 1MHz and applied reverse voltage of 5V D.C.
2. Pulse Test: Pulse Width=300 μ S, Duty Cycle \leq 2%.

RATINGS AND CHARACTERISTIC CURVES

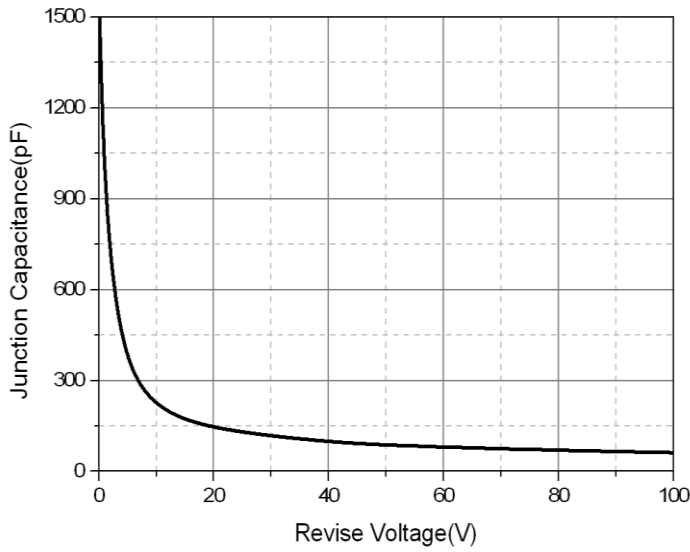
Typical Forward Current Derating Curve



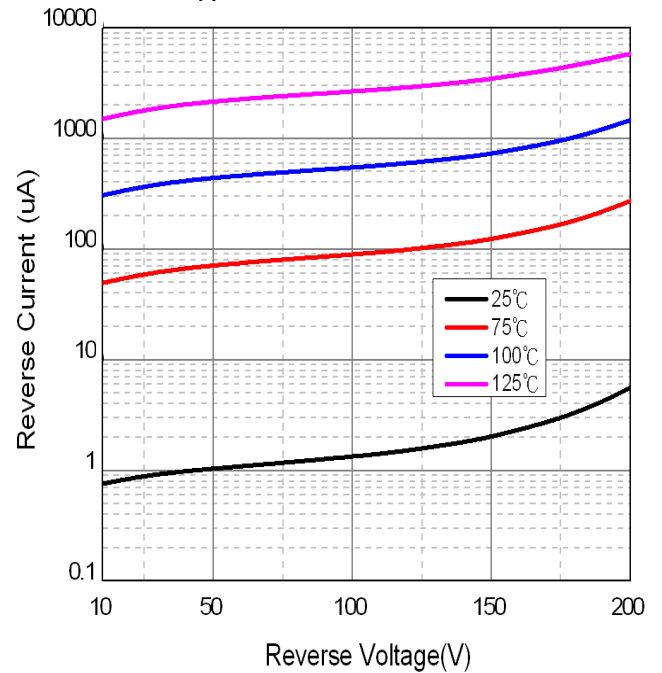
Typical Forward Characteristic



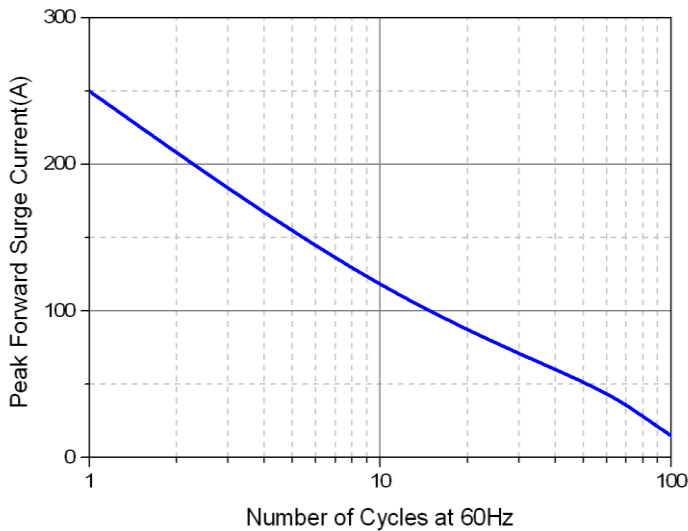
Typical Junction Capacitance



Typical Reverse Characteristic

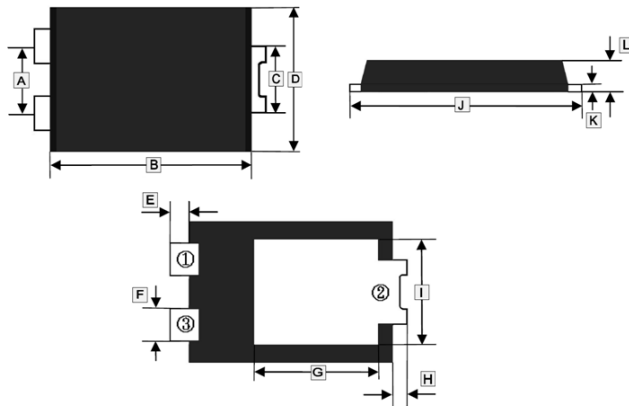


Maximum Non-Repetitive Forward Surge Current



PACKAGE OUTLINE DIMENSIONS

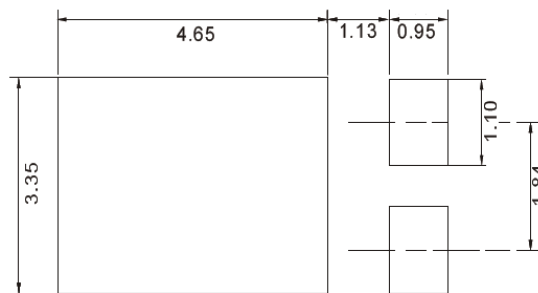
TO-277D



REF.	Millimeter	
	Min.	Max.
A	1.65	1.95
B	5.30	5.50
C	1.70	1.90
D	3.80	4.20
E	0.45	0.65
F	0.80	1.00
G	3.25	3.85
H	0.45	0.65
I	2.90	3.20
J	6.40	6.60
K	0.30	0.45
L	1.00	1.20

MOUNTING PAD LAYOUT

TO-277D



*Dimensions in millimeters