

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

FEATURES

- Planar MOS Schottky Technology
- 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

PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-263	0.8K	13 inch

ORDER INFORMATION

Part Number	Type
SBL30U60D	Lead (Pb)-free
SBL30U60D-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}	60	
Working Peak Reverse Voltage	V _{RSM}	60	V
Maximum DC Blocking Voltage	V _{DC}	60	
Maximum Average Forward Rectified Current (Per Leg)	I _F	15	
(Per Device)		30	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/μs
Typical Thermal Resistance	R _{θJC}	3	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-40~150	°C

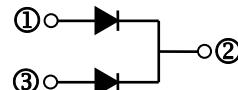
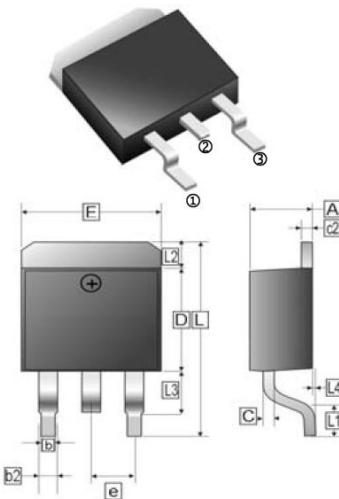
ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V _F	0.37	0.39	V	I _F =3A, T _J =25°C
		0.41	0.46		I _F =5A, T _J =25°C
		0.49	0.53		I _F =10A, T _J =25°C
		0.58	0.61		I _F =15A, T _J =25°C
		0.56	-		I _F =15A, T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	I _R	-	0.5	mA	T _J =25°C
		-	20		T _J =100°C
Typical Junction Capacitance ¹	C _J	520	-	pF	

Notes:

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

TO-263(D²-PACK)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.00	4.87	c2	1.07	1.65
b	0.51	1.01	b2	1.34	REF
L4	0.00	0.30	D	8.0	9.65
C	0.30	0.74	e	2.54	REF
L3	1.50	REF	L	14.6	16.1
L1	2.5	REF	L2	1.27	REF
E	9.60	10.67			

RATINGS AND CHARACTERISTIC CURVES

