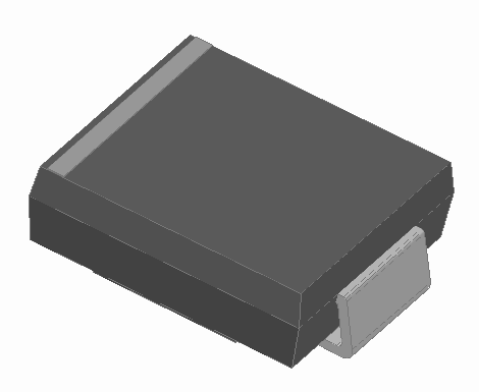
SS315Q THRU SS320Q

RoHS
COMPLIANT

Surface Mount Schottky Rectifier

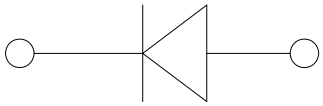


Features

- *XDUGULQJ IRU RYHUYROWDJH SURWHFWLRQ
- /RZ SRZHU ORVVHV
- ([WUHPHO\ IDVW VZLWFKLQJ
- +LJK IRUZDUG VXUJH FDSDELOLW\
- +LJK IUHTXHQF\ RSHUDWLRQ
- 0HHWV 06/ OHYHO SHU - 67' /) PD[LPXP RI f&
- 3DUW QR Z4WKDQVLVWRU DQVLVWRU$(& 4 TXDOLILHG

Typical Applications

)RU XVH LQ ORZ YROWDJH KLJK IUHTXHQF\ L IUHHZKHHOLQJ '&U'& FRQYHUWHUV DQG SR SURWHFWLRQ DSSOLFDWLRQV



Mechanical Data

- **Package** '2 $% 60&
  0ROGLQJ FRPSRXQG 9PHHWV 8/ IODPPDELOLW\ UDWLQJ 5R+6 FRPSOLDQW
- **Terminals** 7LQ SODWHG OHDGV VROGHUDEOH S DQG -(6' %
- **Polarity:** &RORU EDQG GHQRWHV WKH FDWKRGH

Maximum Ratings 7D - 8QOHVV RWKHUZLVH VSHFLILHG

PARAMETER	SYMBOL	UNIT	SS315Q	SS320Q
'HYLFH PDUNLQJ FRGH			66	66
5HSHWLWLYH SHDN UHYHUVH YROWDJH	9_{550}	9		
0D[LPXP 506 YROWDJH	9_{506}	9		
0D[LPXP '& EORFNLQJ YROWDJH	$9_{\&}$	9		
0D[LPXP DYHUDJH IRUZDUG UHFWLILHG FXUUHQW DW 7			$	
6XUJH QRQ UHSHWLWLYH IRUZDUG FXUUHQW # +] KDOI VLQH ZDYH - F\FOH 7	$_{)60}$	$		
9ROWDJH UDWH RI FKDQJH UDWHG 9 G9 GW		9 V		
6WRUDJH WHPSHUDWXUH	7_{VWJ}	-	a	
-XQFWLRQ WHPSHUDWXUH DQG VWRUDJH WHPSHUDWXUH	7_{-}		a	

Electrical Characteristics Ä 7D - 8QOHVV RWKHUZLVH VSHFLILHG

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
,QVWDQWDQHRXV IRUZDUG YROWDJH) $	$_{)}$	7 -	$9_{,}$			9
		7 -				
5HYHUVH FXUUHQW	$_{5}$	5DWHG 9	7 -			$
			7 -			
7\SLFDO MXQFWLRQ FDSDFLWDQFH	$_{5}$	9 I 0&+]		9		S)

SS315Q THRU SS320Q

Thermal Characteristics (Ta unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS315Q	SS320Q
Thermal Resistance	$R_{\theta JA}$	°C/W		
	$R_{\theta JL}$			

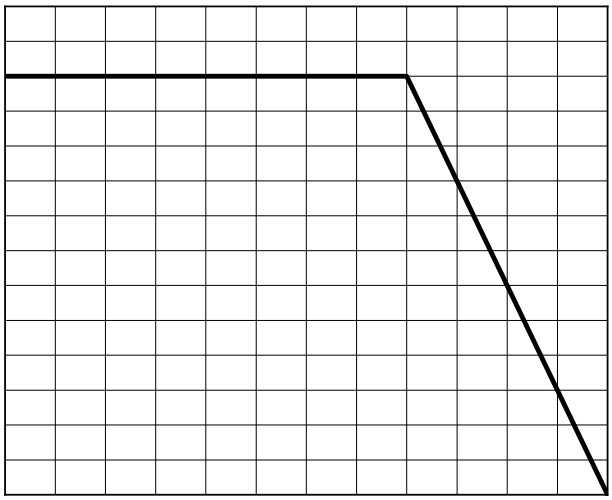
Note
Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.2" x 0.2" (5.0mm x 5.0mm) copper pad areas

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	MINIMUM PACKAGE (pcs)	MINIMUM INNER BOX QTY (pcs)	MINIMUM OUTER CARTON QTY (pcs)	DELIVERY MODE
SS315Q thru SS320Q	R2	1800	7200	36000	7" Reel

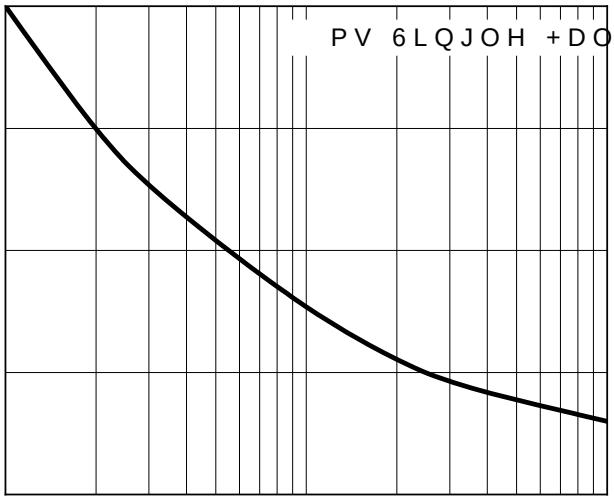
Characteristics (Typical)

Fig.1 Forward Current Derating Curve



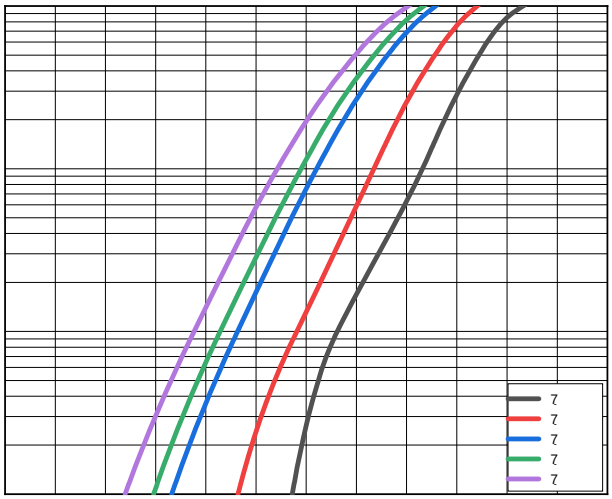
Lead Temperature (°C)

Fig.2 Typical Junction Capacitance



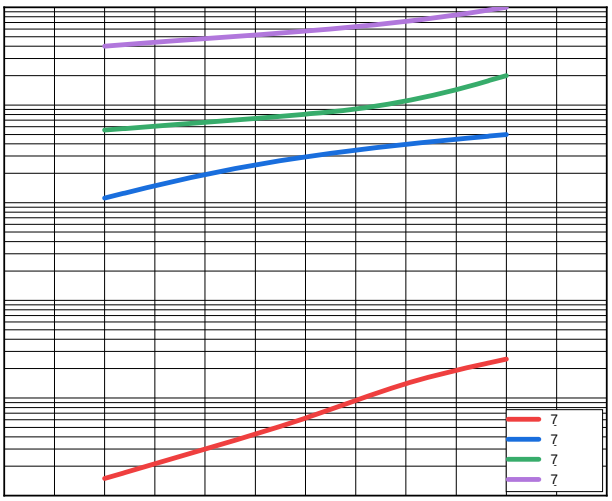
Number of Cycles at 60Hz

Fig.3 Typical Instantaneous Forward Characteristics



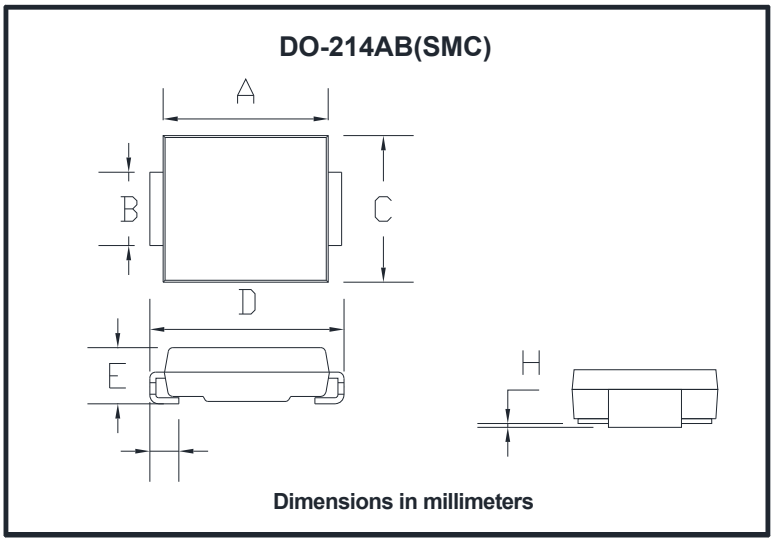
Instantaneous Forward Voltage (V)

Fig.4 Typical Reverse Characteristics



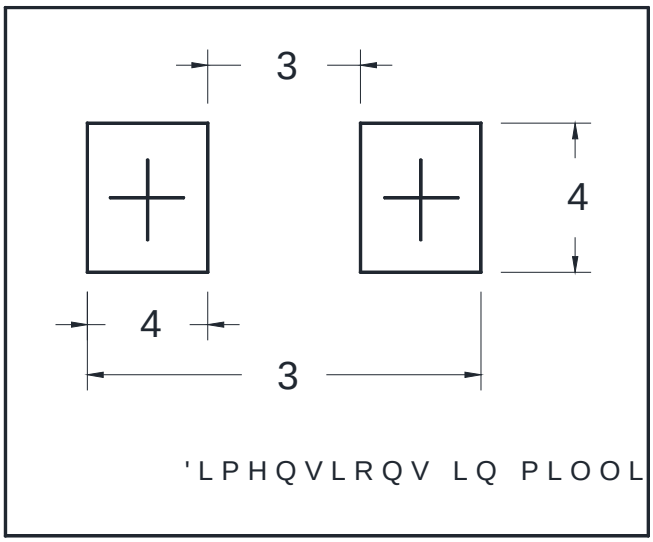
Percent of Rated Peak Reverse Voltage (%)

vOutline Dimensions



'2 $% 60&		
'LP	0LQ	0D[
$		
%		
&		
'		
(		
)		
*		
+		

■ Suggested pad layout



Dim	Typ
3	
3	
4	
4	

Disclaimer

7KH LQIRUPDWLRQ SURGXFW GHVFULSWLRQV DQG VSHFLILFDWLRQV SURGXFWV DQG GDWD DUH VXEMHFW WR FKDQJH ZLWKRXW QRWLFH DW DQ\ WLPH EDVHG RQ &RPSDQ\ SROLF\ &RPSDQ\ GLVFODLPV DOO OLDELOLW\ DULVLQJ IURP IDLOXUH WR PDNH PRGLILFDWLRQV WR FXVWRPHU GHVLJQV RU WKH DSSOLFDWLRQ RU XVH E\ FXVWRPHU RU DQ\ WKLUG SDUW\ &RPSDQ\ GRHV QRW DVVXPH DQ\ OLDELOLW\ DULVLQJ RXW RI DSSOLFDWLRQV RU XVH RI SURGXFWV RU PDWHULDOV GHVFULEHG KHUHLQ &RPSDQ\ GRHV QRW JUDQW DQ\ SDWHQW OLFHQVH XQGHU LWV SDWHQW ULJKWV QRU WKH ULJKWV RI RWKHUV &XVWRPHU VKRXOG REWDLQ DQG YHULI\ WKH PRVW UHFHQW LQIRUPDWLRQ EHIRUH SODFLQJ RUGHUV

7KLV SXEOLFDWLRQ VXSHUVHGHV DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXVO\ VXSSOLHG WR SXUFKDVHUV RI WKH SURGXFWV OLVWHG KHUHLQ

7KLV SXEOLFDWLRQ LV SURWHFWHG E\ FRS\ULJKW ODZV DQG WUHDWLHV &RS\LQJ PRGLILFDWLRQ WUDQVPLVVLRQ RU GLVWULEXWLRQ IRU SXUSRVHV RWKHU WKDQ WKRVH DXWKRUL]HG E\ &RPSDQ\ LV SURKLELWHG H[FHSW DV DXWKRUL]HG E\ &RPSDQ\ LQ ZULWLQJ &RS\LQJ UHYHUVH HQJLQHHULQJ RU GLVDVVHPEO\ RI WKH GHYLFH LV SURKLELWHG